

RESTRICTED

JACSPAC

**JOINT ARMY & NAVY
RADIO FACILITY CHARTS**

CORRECTED TO OCTOBER 1, 1945
VOLUME 3, NUMBER 9



NOTICE

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PUBLISHED BY AUTHORITY OF THE COMMANDING GENERAL,
ARMY AIR FORCES BY HEADQUARTERS,
7TH ARMY AIRWAYS COMMUNICATIONS SYSTEM WING.

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1. **GENERAL:** These radio facility charts are drawn up using the form of T.O. 08-15-1 ARMY AIR FORCES RADIO FACILITY CHARTS insofar as practicable.

2. **BASIS OF DISTRIBUTION:** These radio facility charts are distributed in the Pacific Area on the following basis:

ORGANIZATION	COPIES DISTRIBUTED TO
Air Transport Command	Headquarters, Pacific Division Air Transport Command.
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South Pacific Organizations	Commanding Officer, 71st AACS Group, APO 953

The Headquarters 7th Army Airways Communications System Wing, will distribute copies in the quantity requested to the headquarters indicated in the column "COPIES DISTRIBUTED TO" above. Additional copies needed may be obtained by request in radiograms to "KHYN", Hickam Field, or by letter to Commanding Officer, 7th Army Airways Communications Wing APO 953. All activities coming under the column "ORGANIZATION" above should send their requests for additional copies to the office responsible for their distribution.

3. **CORRECTIONS:** a. Before being placed in service and until a revision is received these charts should be corrected when "NOTICES TO AIRMEN" are received by radio or by comparison with a copy containing corrections to date.

b. Source and date of corrections made to the charts should be entered on the "RECORD OF CORRECTIONS" listed elsewhere in this publication, and initialed by the individual making the changes.

4. **REPORTING FACILITY CHANGES:** Due to many additional radio facility installations being made to improve aerial radio navigation and airways communications in the Pacific Area, it is requested that any inaccuracies noted, new facilities and changes in facilities be reported immediately by radio message to A.A.C.S. Radio Station "WZJ", and followed by letter to Commanding Officer, 7th AACS Wing APO 953 provided a letter is deemed necessary to clarify the information concerning any facility.

5. **ADDITIONAL PACIFIC AIRWAYS PUBLICATIONS:** JACSPAC, Joint Army and Navy Radio Facility Chart, is designed for the use and aid of airmen and attempts to list only the Radio-Navigational Aid Facilities. Information relative to field conditions, detailed maps of islands and other data of value to airmen will be found in "H.O. #503, Pacific Airways Route Manual," Central and South Pacific editions. This manual may be procured through the Air Navigation Office, Naval Air Station, Honolulu, T. H.

"West Coast Extract of U. S. Radio Facility Charts" are available at ATC Operations and Briefing Offices at Hamilton, Fairfield and Hickam. Hq 7th AACS Wing handles distribution of this extract for organizations in the Pacific.

"Airways Navigational Facilities of Australia" contains more complete information on radio facilities in Australia and adjacent islands. This book may be obtained from Duty Flight Officers at stations in that area.

"Joint Army Navy Instrument Approach Charts" containing let-down procedures for fields utilizing SCS-51 equipment may be obtained at Operations and Briefing Offices or on request to Hqs 7th AACS Wing. These charts are, however, included in the "H.O. 503" mentioned above.

TIME TICK SCHEDULE

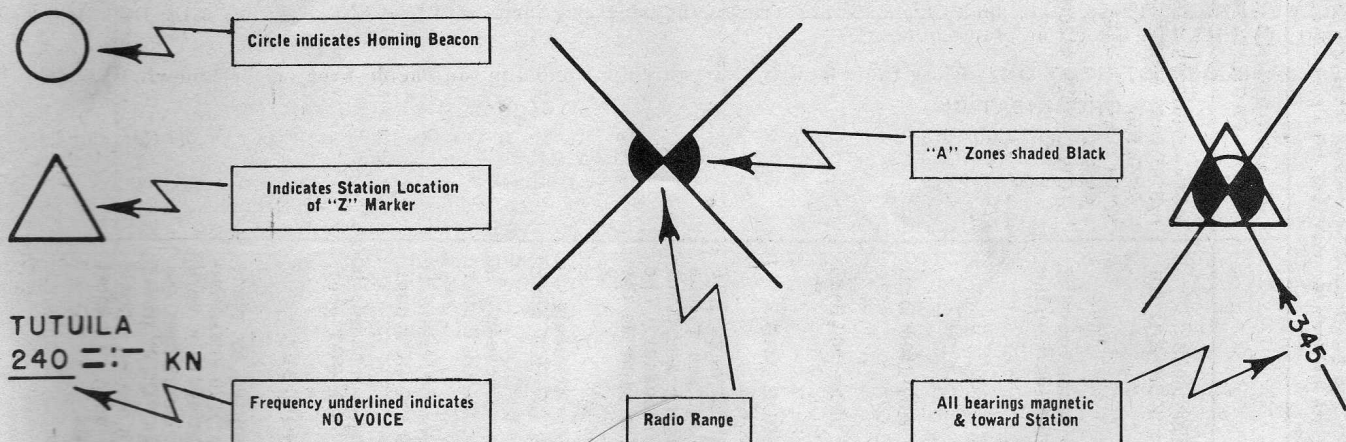
NAVAL RADIO STATION	TIME (GCT)	FREQUENCIES
NPM—Honolulu	0355 to 0400	9090—14390—17370
	1555 to 1600	4525—9090—14390
	1955 to 2000	9090—14390—17370
NPG—San Francisco	0255 to 0300, 0755 to 0800	115—9255—12540
	1455 to 1500	115—9255—12540
	1655 to 1700, 1955 to 2000	115
NSS—Washington	0355 to 0400, 0955 to 1000	113—4390—9425—12630
	1555 to 1600, 2155 to 2200	113—4390—9425—12630
WTO—Brisbane, Australia	0755 to 0800	5000—10000
	1155 to 1200	5000—15000
	1955 to 2000	5000—10000
	2355 to 2400	5000—15000
WXXU—Manila	0355 to 0400, 1555 to 1600	4445—8675—12200
	1955 to 2000, 2355 to 2400	4445—8675—12200

WWV—Washington, D. C. Continuous time ticks on 2500, 5000, 10000 and 15000 Kcs 24 hours daily. 10 KW Power.

This signal is given in the following manner: 440 and 4000 cps modulation on the carrier ceases each 4 minutes, for a period of one minute. The time the tone ceases is the time signal marking the five minute period. The modulation is off for exactly one minute, while the call sign of the stations is given. The resumption of the tone is also exactly on the minute. Obviously, the BFO should be left "OFF" in receiving these signals.

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NOTE: All facilities operative 24 hours daily, unless the hours of operation are indicated herein. All facilities operative additionally upon request, unless otherwise indicated herein. All bearings are magnetic, unless otherwise indicated herein. Cone of silence "Z" marker operates on 75,000 kilocycles.

EXPLANATORY INFORMATION: Detailed explanatory information concerning Ranges, Beacons, Homers, and Racon facilities will be found on pages 40, 41, 42 and 43.

TOWERS: When contacting any Tower the word "Tower" will be used following the voice call of the Tower itself.

GROUND CONTROL APPROACH AND INSTRUMENT LANDING FACILITIES: These facilities are listed under the remarks column as to location and specific time of continuous operation. These facilities are operative additionally during instrument weather and at other hours are available on request to the tower with 30 minutes advance notice.

DIRECTION FINDING: Under Remarks column is listed the latitude and longitude of the D/F station and the megacycle frequency band the D/F equipment can cover when taking bearings. Example: "D/F available 2-10 mcs, 18° 20' 22"N, 160° 10' 15" W. Contact Air-Ground station for instructions. Where VHF D/F is available contact tower for instructions. Air SOS frequency 8280 kcs monitored continuously by all D/F stations who test Xmitters 0000-0005Z daily.

TERMINAL WEATHER is broadcast on homing beacons at 05 and 35 minutes past the GCT hour in the Pacific Ocean Area and at 15, 35 and 55 minutes past GCT hour in the Southwest Pacific Theatre. Complete list of broadcasts and schedules is posted on page 40.

CAUTION: This publication has been compiled from the latest and most reliable information available. While every effort has been made to assure accuracy, conditions are constantly changing and pilots are warned to procure latest data on communications facilities, frequencies, radio ranges, etc., at each point of departure for the next leg of the flight

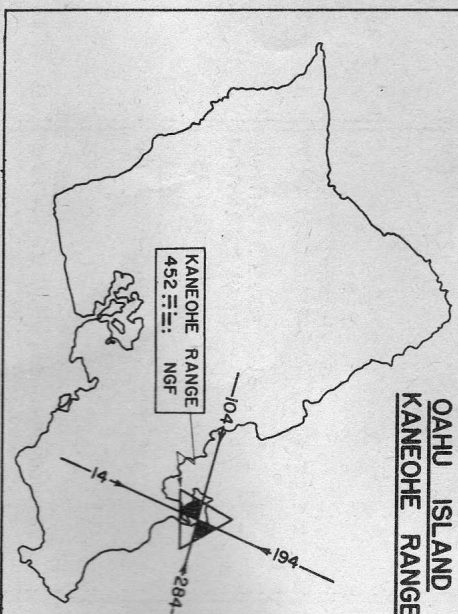
RECORD OF CORRECTION

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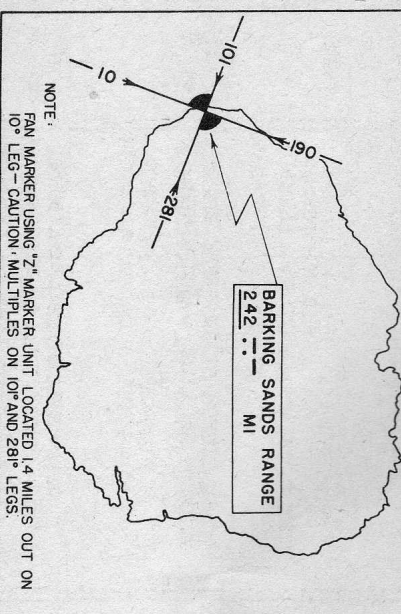
ALL FACILITIES ARE OPERATIVE CONTINUOUSLY EXCEPT WHERE (D) OR (N) INDICATES DAY OF NIGHT OPERATION ONLY AND (*) ON REQUEST ONLY. In Range and Homer columns bearing is magnetic toward nearest end of nearest runway with distance in statute miles. In Tower and Air-Ground columns all freqs are Xmitted and Received with the following indicated exceptions: (X) means Xmit only, (R) Receives only. Freqs in pairs such as 3450/6705 indicate low freq for night use, high freq for day use.

RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
3.5 @ 55°	HOMESTEAD (441')—140.58, X396, R2922, R4495, R6970		HOMESTEAD FIELD (MOLOKAI)—D/F courses and fixes 2-10 mcs: 21° 09' 15" N, 157° 05' 15" W. Warning: Radio-Navigational aids may be inoperative 0430- 0530Z for normal maintenance. Tower operative from 1700-0230Z.	
21.8 @ 288° "KF" 0.4 @ 190° "MI"	BARKING SANDS (13')—116.1, 126.18, 140.58, X263, R2922, R4495, R6970		BARKING SANDS AIRFIELD (KAUAI)—RANGE station guards 4495 kcs (Voice). "KF" range located at Port Allen "MI" Localizer Range at Barking Sands, see map insert. KTOH, Lihue, Kauai, Brdest Stn, 1490 kcs operative 1700- 0745Z. D/F courses and fixes 2-10 mcs: 22° 04' 08" N, 159° 19' 22" W Warning: Radio-Navigational aids may be inoperative 1200- 1500Z for normal maintenance.	WZJ—3620/5545, 4595/8200, 4635, 4850, (For all flights except West Coast—Hawaii)
2.1 @ 68° "HZ"	HICKAM (21')—116.1, 126.18, 140.58, X236, R4220, R4495, R6970	0.8 @ 150°	HICKAM FIELD(OAHU)—D/F courses and fixes 2-10 mcs: 21° 29' 15" N, 157° 59' 22" W. Warning: Radio-Navigational aids may be inoperative 1800- 2000Z for normal maintenance. All aircraft will contact Honolulu OATC and secure clearance before leaving enroute cruising altitude.	
4.0 @ 80° "HZ"	HONOLULU OATC—128.16, X344, R3105, R4220, R4495, R6500 HONOLULU (9)—116.1, 140.58, X272, R2870, R4495, R6210, R6970 HONOLULU BASE—3195	3.2 @ 102° "WZJ"	HONOLULU NAVAL STATION (OAHU)—Terminal Weather brdest 30 minutes past GCT hour on KVM A/G frequencies in use at that time. D/F courses and fixes 2-10 mcs: 21° 29' 15" N, 157° 59' 22" W. Honolulu Tower and Seadrome utilize same frequencies.	KVM—2940, 3395, 3640, 4275, 4570, 5145, 5165, 6515, 6557, 6675, 7020, 8577 (For West Coast—Hawaii flights)
1.3 @ 253°	KANEOHE (5')—116.1, 140.58, X254, R6970 KANEOHE SEADROME—3295 KANEOHE BASE—3195		KANEOHE NAVAL AIR STATION (OAHU)—"NGF" Range operative on request to KVM or WZJ or to Kaneohe Tower. Terminal Weather in clear on request to Kaneohe tower. D/F courses and fixes 100-1500 kcs and 2-18 mcs: 21° 26' 20" N, 157° 44' 27" W. Kaneohe Seadrome operative days and during night opera- tions. After landing contact ALEX on 142.74 mcs for ramp instructions only.	
13.1 @ 342°	PUUNENE (54')—116.1, 140.58, 142.74, 6970, R4495 KAHULUI—116.1, 140.58, 6970, R4495 PUUNENE BASE—3195 KAHULUI BASE—3195		HONOLULU COMMERCIAL BROADCASTING STATIONS— KGMB, 590 kcs and KGU, 760 kcs are operative 1545-0830Z. MAUI AIRPORT—Range Station guards 4495 kcs (Voice). D/F available.	
2.8 @ 251°	HILO (10')—116.1, 126.18, 140.58, X272, R2922, R4495, R6970		HILO AIRPORT (HAWAII)—Range Station guards 4495 kcs (Voice). KHBC Hilo Brdest Sta 1230 kcs, operative 1630-0730Z. D/F courses and fixes 2-10 mcs: 19° 26' 10" N, 155° 17' W; 2-10 mcs 18° 57' N, 155° 41' 20" W. Warning: Radio-Navigational aids may be inoperative 0730- 0830Z for normal maintenance. Hilo Tower and Seadrome utilize same frequencies.	

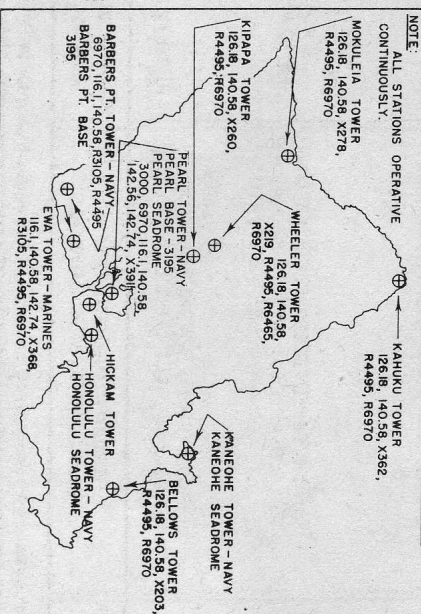
OAHU ISLAND KANEHOE RANGE



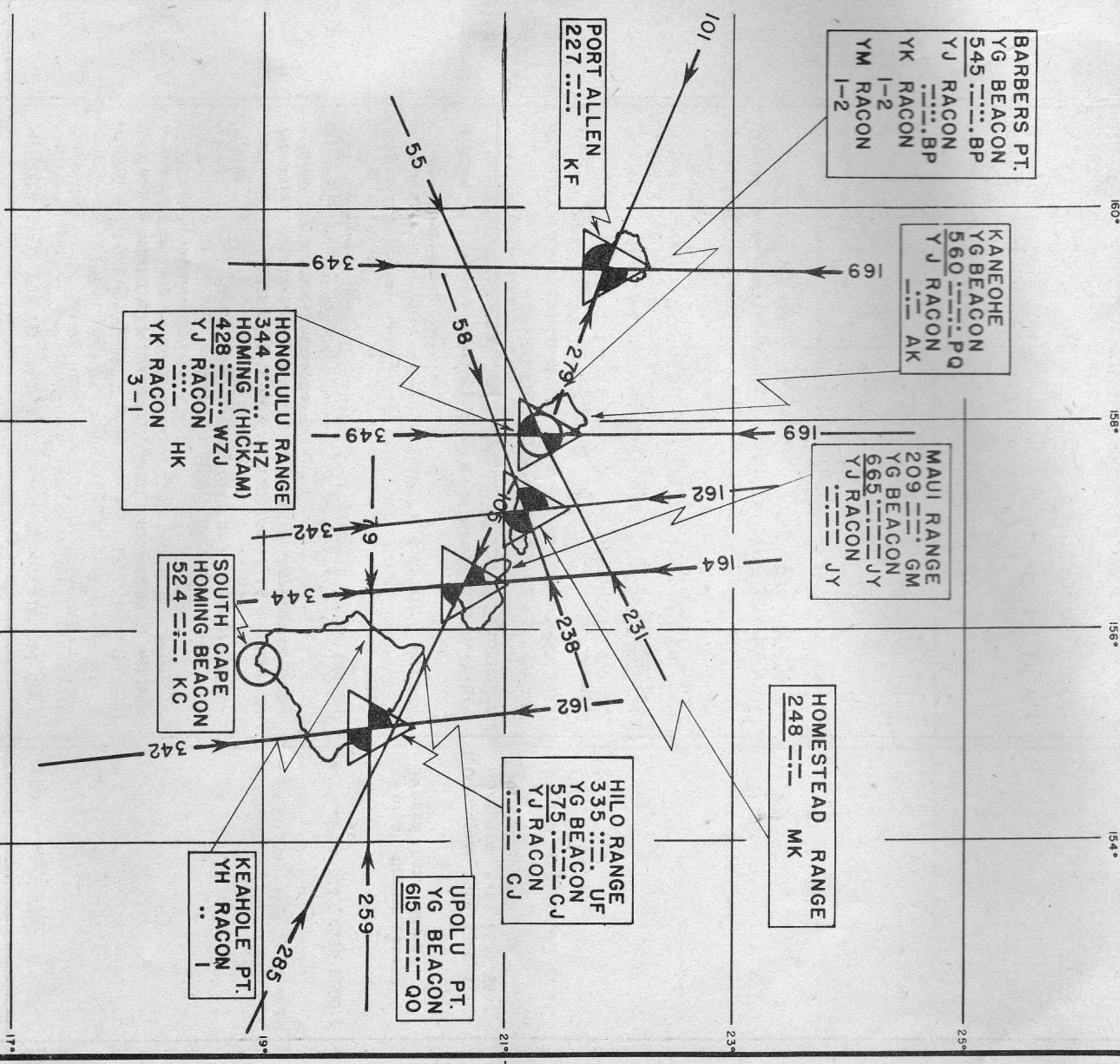
BARKING SANDS LOCALIZER RANGE



DATA ON OAHU CONTROL TOWERS

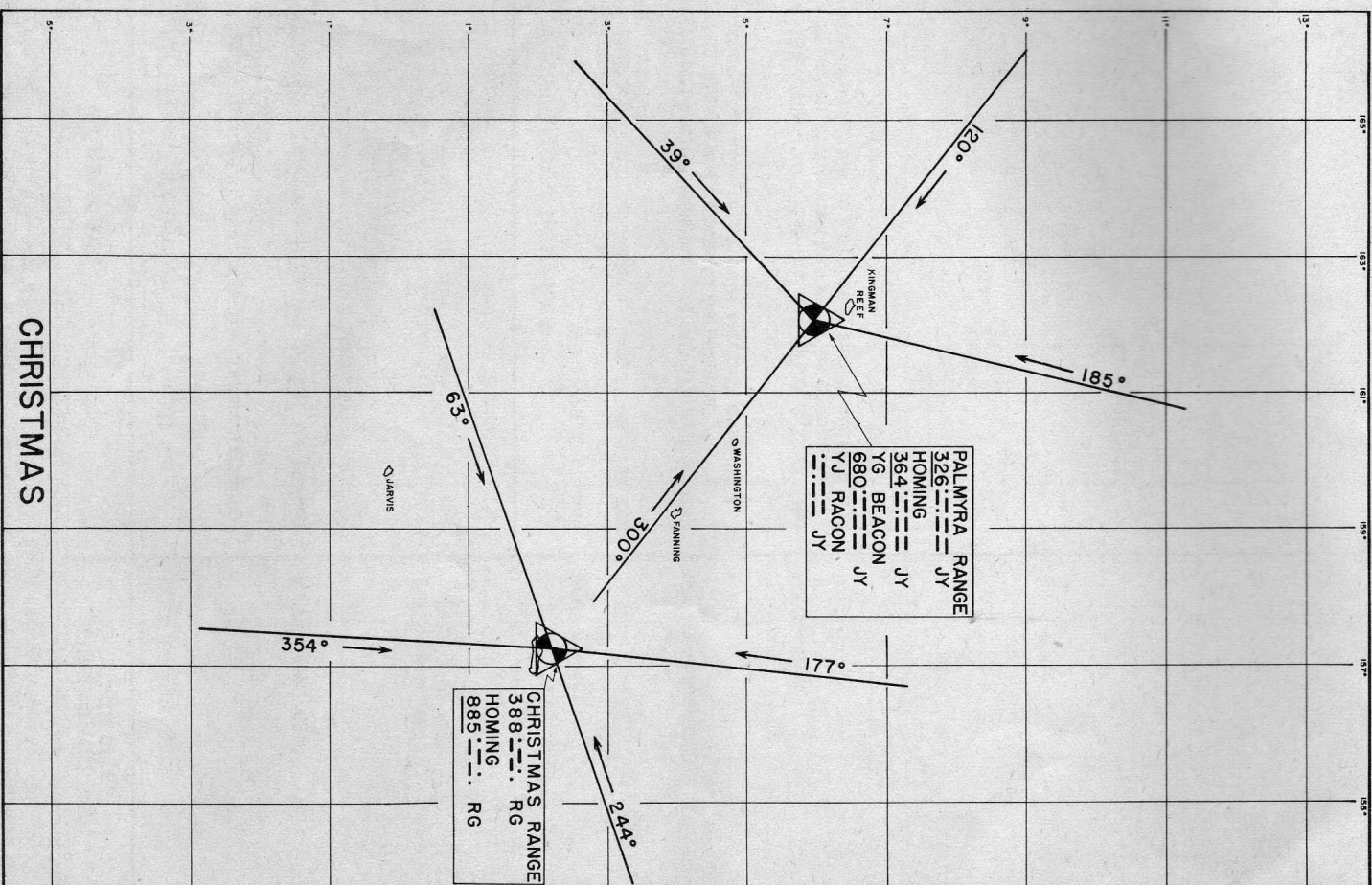
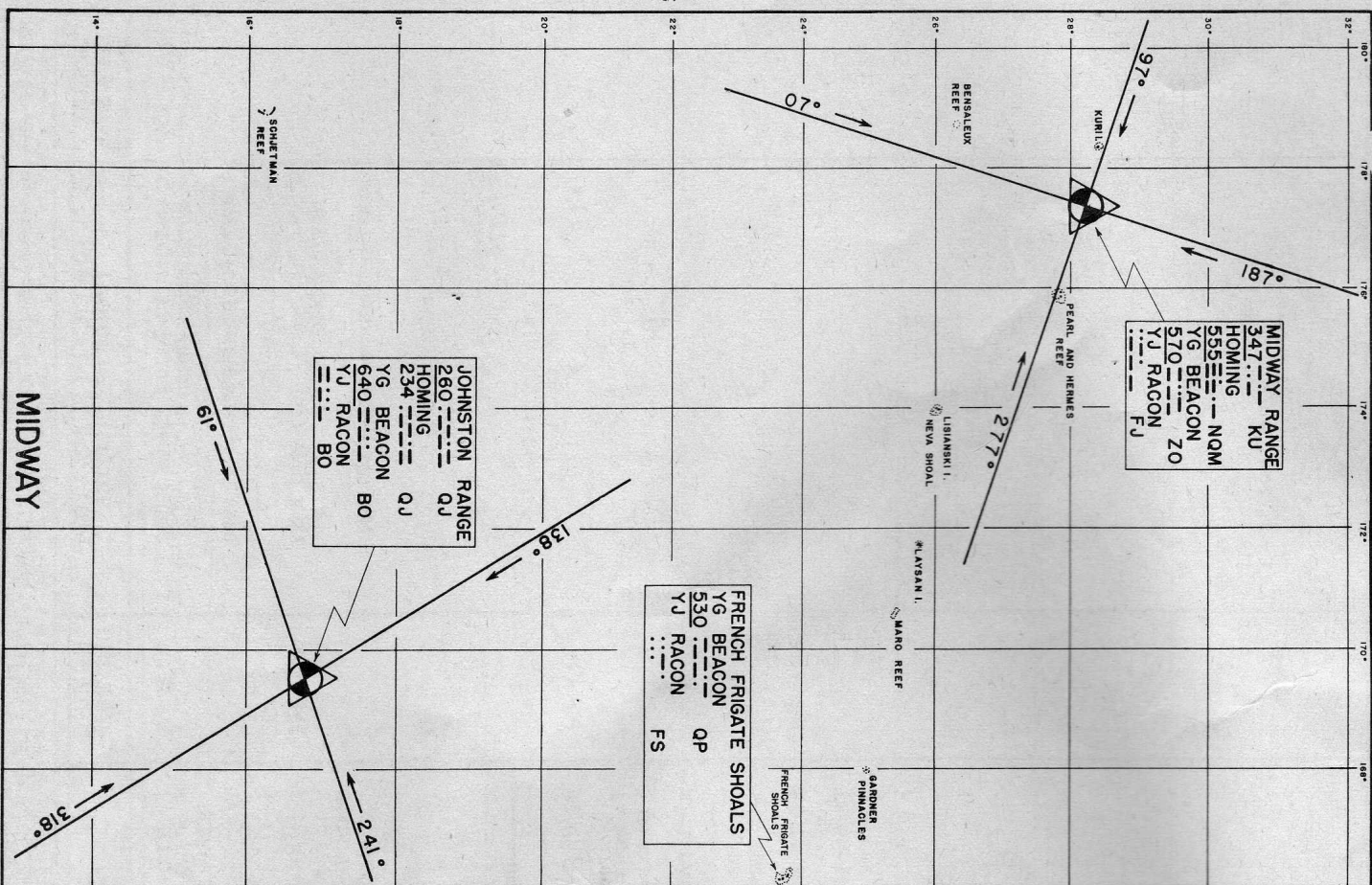


HAWAII



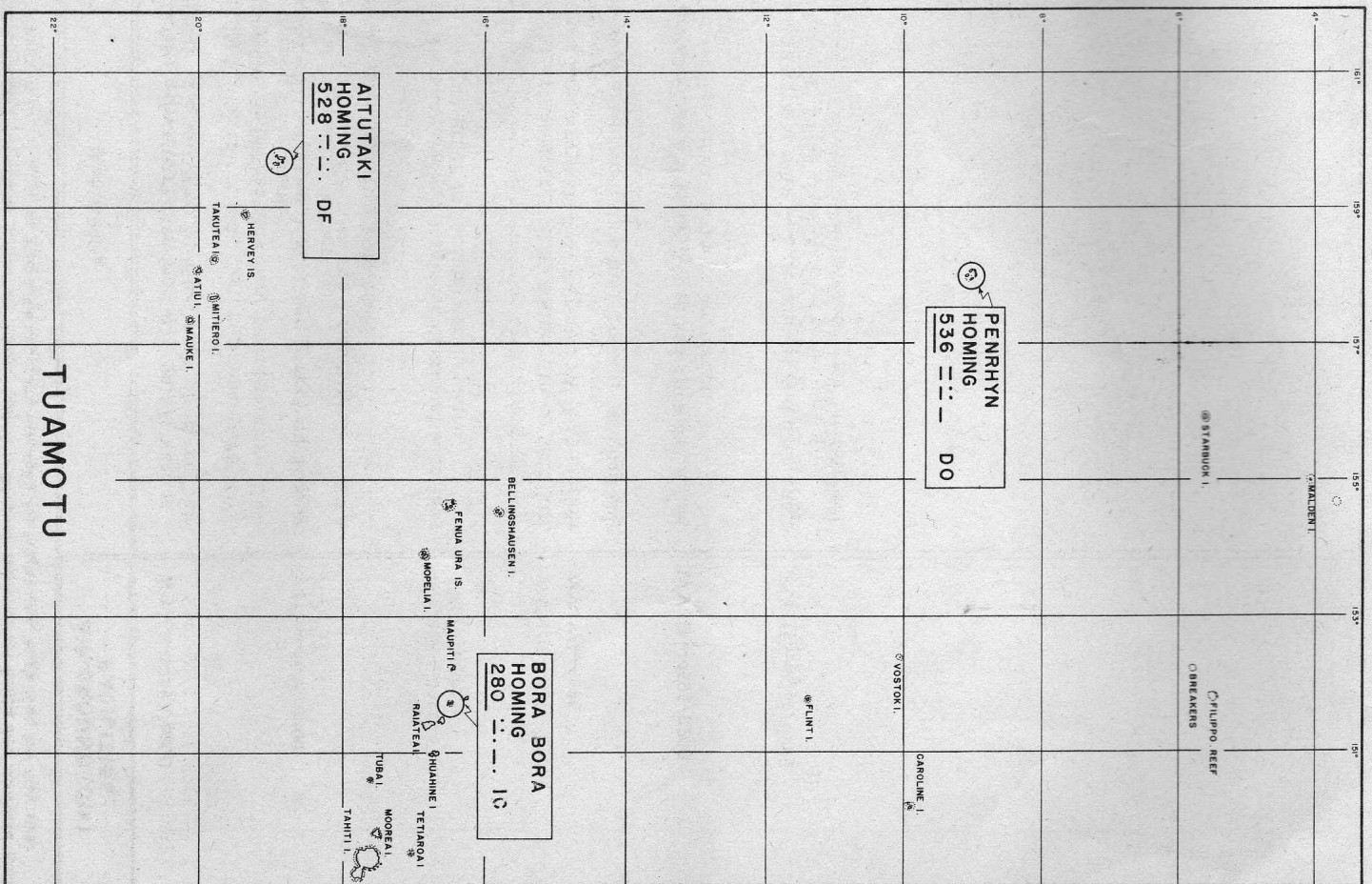
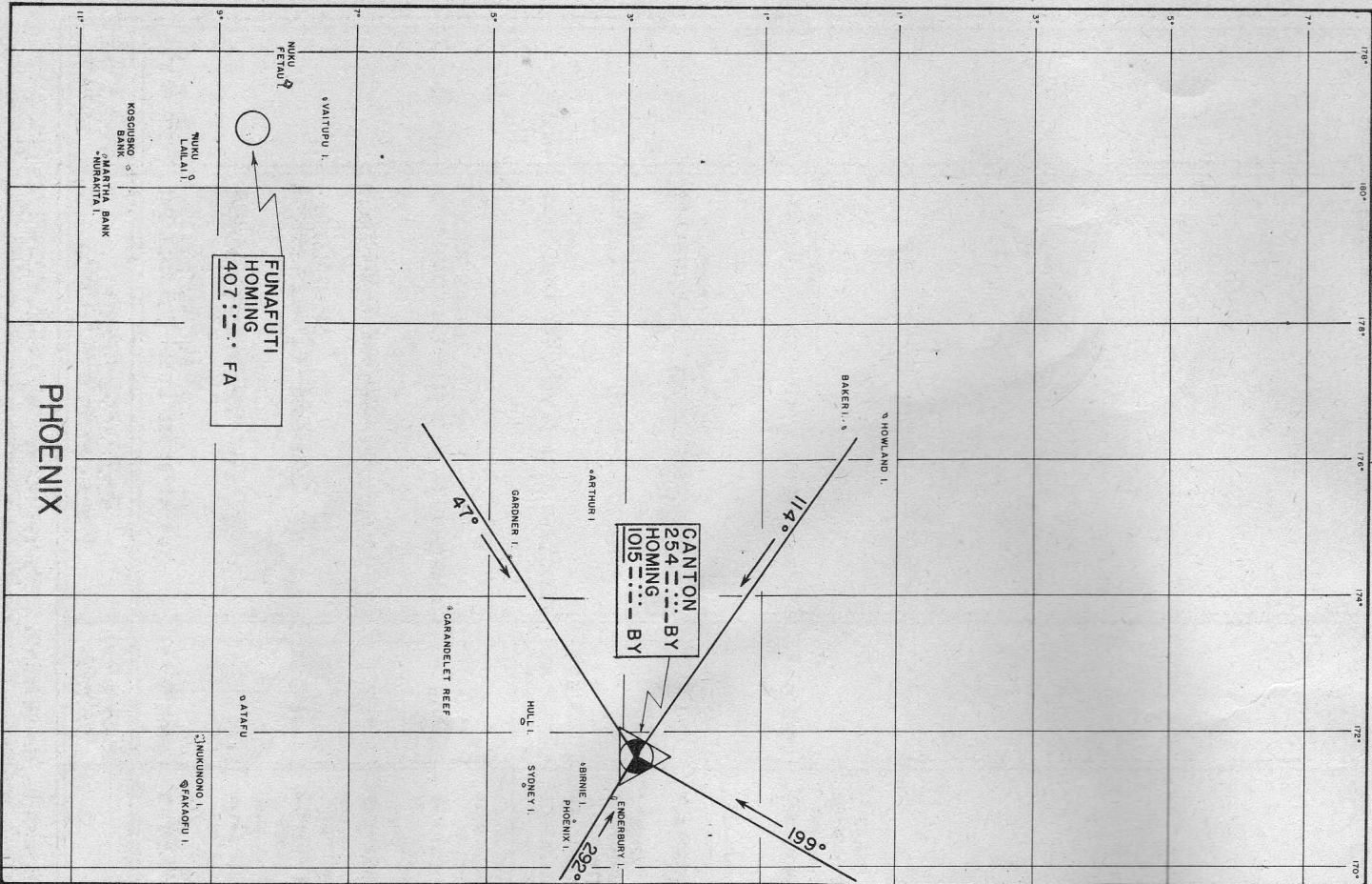
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RANGE Dist & Brng	TOWER, FLDELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
At Field	MIDWAY (7) Sand Island—116.1, 140.58, 6500, X278, R3355, R4495, R6155, R6970 MIDWAY BASE—4495 MIDWAY SEADROME—6970	At Field	MIDWAY—Range Legs swinging slightly at night, Caution. "NQM" Homing, A-1 emission, operative when planes are enroute. D/F available 2900-8600 kcs: 28° 12' 02" N, 177° 22' 38" W. Contact Midway Base one hour prior to ETA on 4495 kcs. Upon reaching Islands aircraft shall notify Base "I see you" after which planes shall contact their respective tower for landing instructions.	NQM5—4595/8200
1.4 @ 220°	JOHNSTON (7')—116.1, 126.18, 140.58, 4475, 6970, X272, R4495 JOHNSTON OATC—128.16, X234, R4495, R6500 JOHNSTON SEADROME—6970 FRENCH FRIGATE—6970	1.2 @ 222°	JOHNSTON ISLAND—WVTV A. F. Brdcast Stn on 1420 kcs. Warning: Radio-Navigational aids may be inoperative 0400-0500Z for normal maintenance. Caution "QJ" Range has bends on 61 and 241 degree legs. D/F courses and fixes available 2-10 mcs: 16° 44' N, 169° 31' W. Contact Johnston OATC for long range voice communications (100 miles); contact Johnston Tower for landing instructions (15 miles). FRENCH FRIGATE SHOALS—Tower operative on request to NQM5, Midway, or when planes are known to be enroute.	NIQ5—3405/6577, 3560/6563, 3620/5545, 4595/8200, 4635, 4830
2.7 @ 50°	CHRISTMAS (5')—116.1, 126.18, X272, R4495, R6970	1.8 @ 58°	CHRISTMAS REMARKS CHRISTMAS ISLAND—"RG" Homing operative from 1630-0630Z and 2 hours prior to ETA of all flights. D/F courses and fixes available 2-10 mcs: 02° 02' N, 157° 26' W. Warning: Radio-Navigational aids may be inoperative 1830-1930Z for normal maintenance. Tower operative 1630-0430Z and 2 hours prior to ETA of all flights.	WYVK—4595/8200
1.4 @ 39°	PALMYRA (6')—116.1, 140.58*, 4495, 6970	0.9 @ 31°	PALMYRA ISLAND—"JY" Homer operative on request. Tower and Seadrome utilize same frequencies, operative 1600-0630Z.	NIX5—4595/8200



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RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
7.3 @ 305°	CANTON (5')—116.1, 126.18, 140.58, X272, R4495, R6970 CANTON SEADROME—4495, 6970 FUNAFUTI* (7')—6500, 6970, X272 R2870, R4495 DIXIE—Seaplane Base—2870, R6500	1.3 @ 290° 0.5 @ 143°	CANTON ISLAND—Auxiliary Homing "BY" on 371 kcs. D/F courses and fixes available 2-10 mcs: 02° 48' S, 171° 39' 34" W. Warning: Radio-Navigational aids may be inoperative 2000- 2200Z for normal maintenance. FUNAFUTI ISLAND—Terminal Weather brdct on Homer on request. Dixie Tower operative on Request and 2 hours prior to ETA of all flights.	WYVA—4595/8200 NJT*—4595/8200
(8')		At Field	TUAMOTU REMARKS PENRRHYN ISLAND—"DO" Homing and WVJW A/G station operative when flights are known to be enroute. Terminal Weather available to enroute aircraft on 4595 kcs on request.	WVJW—4595
(10')		0.8 @ 110°	AITUTAKI ISLAND—"DF" Homing and WVJD A/G station operative when flights are known to be enroute. Terminal Weather available to enroute aircraft on 4595 kcs on request.	WVJD—4595/8200
		2.0 @ 334°	BORA BORA ISLAND—"IC" Homing and NXO A/G station operative only when flights are known to be enroute. Terminal Weather available to enroute aircraft on 4595 kcs on request.	NXO—4595

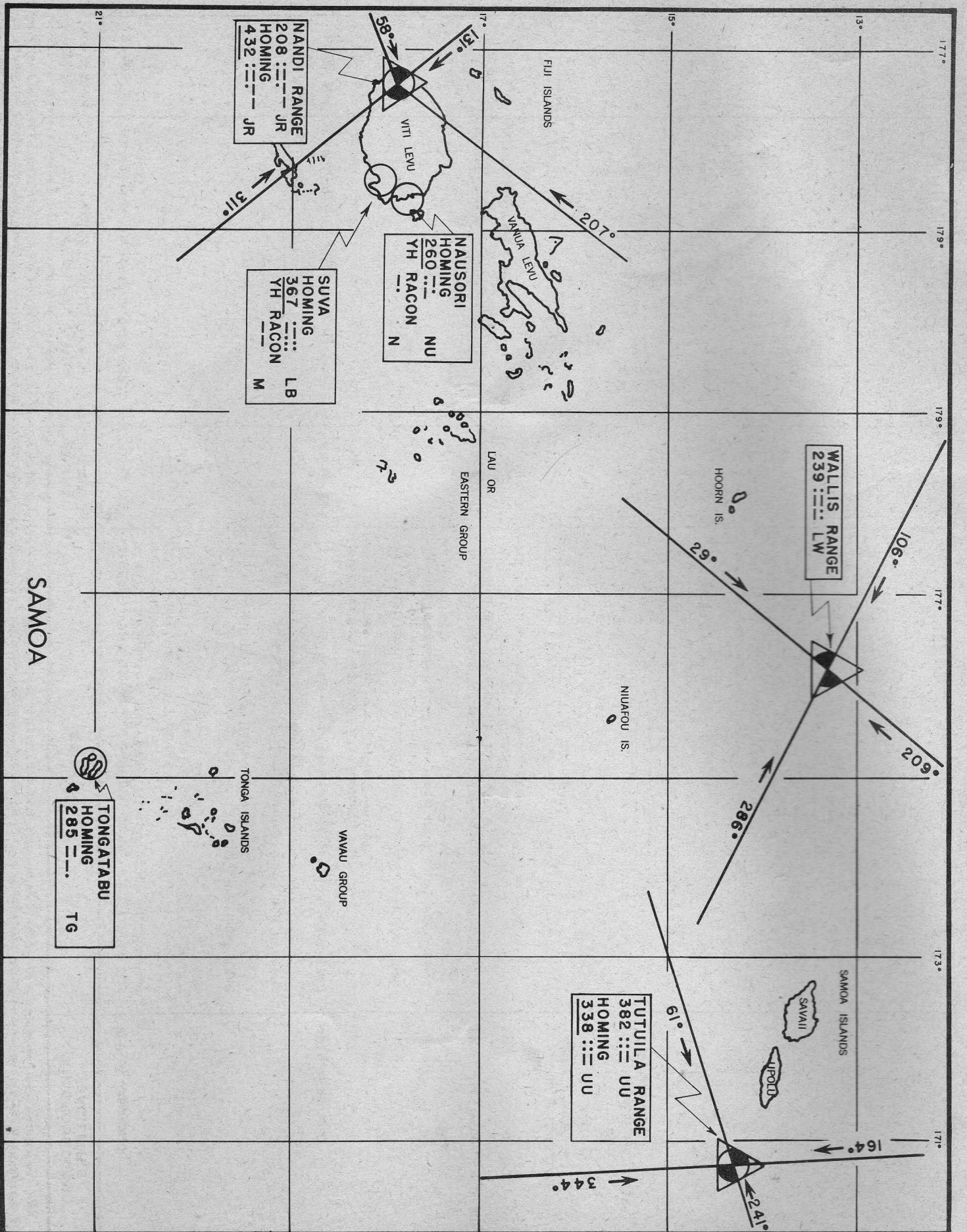


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RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
3.0 @ 122°	KWAJALEIN (15')—116.1, 126.18, 6970, X272, R4495 EBEYE Seaplane Base—116.1, 6970 OATC—X1245, R4495, 6500 ROI—140.58, 6500, 6970	3.0 @ 122°	KWAJALEIN ISLAND—WXLG A. F. Brdcst Stn on 1440 kcs. D/F courses and fixes available 2-10 mcs: 08° 48' 30" N, 167° 36' 42" E. VHF D/F available. Warning: Radio-Navigational aids may be inoperative 2200-2300Z for normal maintenance. During Night or Instrument Weather contact OATC for clearance and tower for landing instructions. ROI ISLAND—Tower operative 1800-1200Z.	NDJ5—2976/6600, 3405/6577, 3440/6910, 3450/6705, 3560/6563, 4595/8200
4.3 @ 68°	MAJURO (10')—116.1, 140.58, 4475, 6970, X272, R4495	At Field	MAJURO ISLAND—Warning: Radio-Navigational aids may be inoperative 0100-0200Z for normal maintenance. D/F courses and fixes available 2-10 mcs: 07° 04' 30" N, 171° 17' 55" E.	WVNB5—3450/6705, 4595/8200
4.9 @ 209°	STICKELL (15') 116.1, 140.58, 6970, X272 R4495 PARRY, Seaplane Base—140.58, 6500, 6970 ENGEBI—116.1, 140.58, 6500, 6970, X278, R4495	1.9 @ 220°	ENIWETOK ISLAND—WXLE A. F. Brdcst Stn on 1320 kcs. D/F courses and fixes available 2-10 mcs: 11° 24' N, 162° 23' E. VHF D/F available. Warning: Radio-Navigational aids may be inoperative 2300-2400Z for normal maintenance. ENGEBI ISLAND—Use Eniwetok Range and Homing.	WVNG5—4595/8200
0.4 @ 291°	HAWKINS (10')—116.1, 140.58, X272, R4495, R6970	1.0 @ 292°	TARAWA (INSERT ON MAP)—D/F courses and fixes available 2-10 mcs: 01° 20' 59" N, 172° 56' 46" E. Warning: Radio-Navigational aids may be inoperative 2300-2400Z for normal maintenance.	WVNE—4595/8200

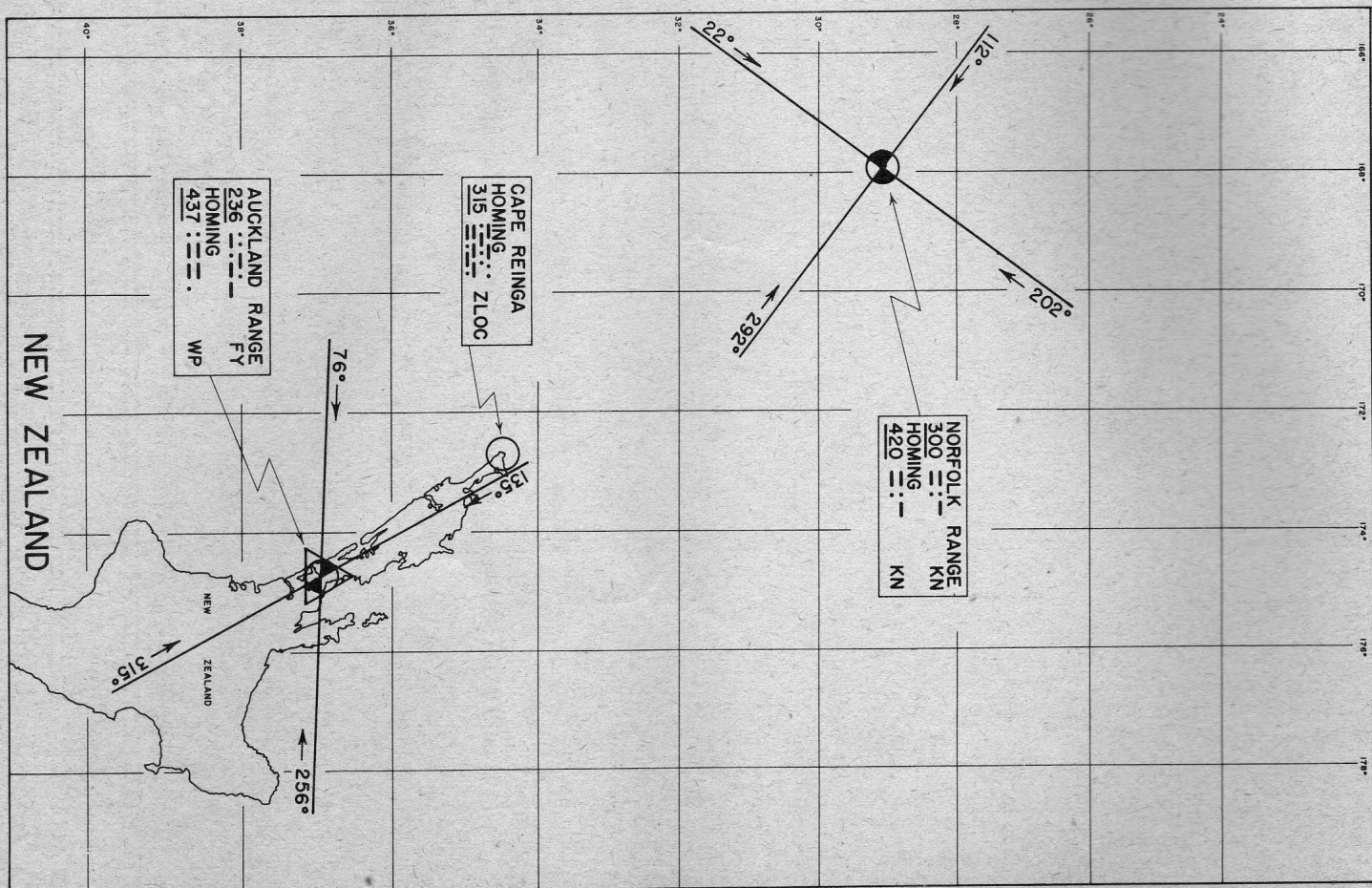
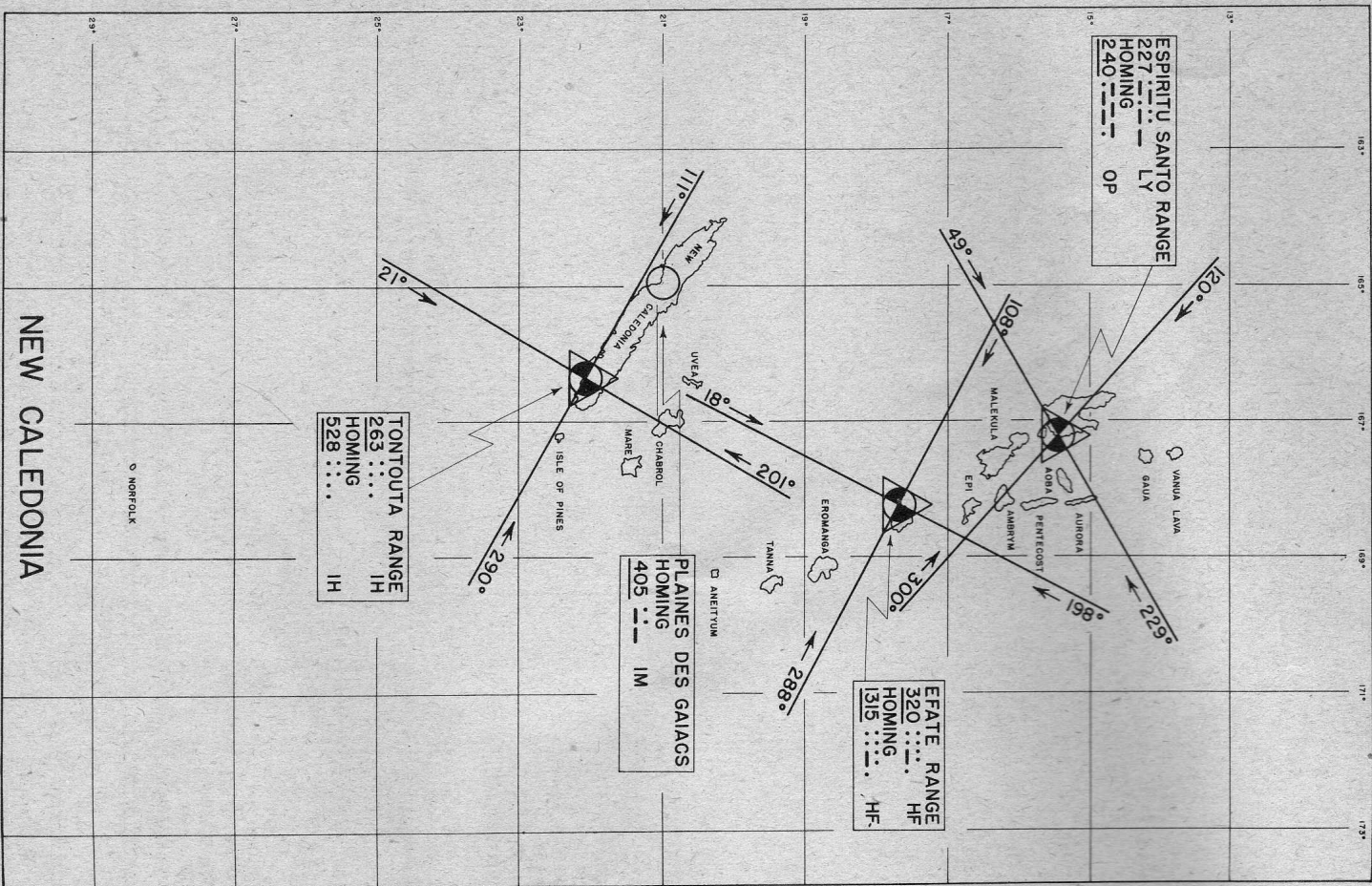
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3.1 @ 26°	NANDI(8')—116.1, 140.58, 6970, X272, R4495	1.0 @ 16°	NANDI—"JR" Range has multiple courses on 207° and 311° legs. Inoperative for Normal Maintenance on Mondays 0200-0300Z. AF Brdcstg Stn WVUT on 660 kcs. D/F courses and fixes available 2-10 mcs: 17° 47' 24" S, 177° 24' 49" E.	WYVB—4595/8200
6.0 @ 04°			WALLIS ISLAND—NHZ operative 0600-1800 local time, Xmits and Receives (Voice) on 6500 kcs.	
			UPOLU ISLAND—NJM (Upolu Radio) Xmits and Receives (Voice) on 6500 kcs from 1800-0600Z.	
4.0 @ 61°	TAFUNA* (6')—6500, 6970, R4495	2.6 @ 75°	TUTUILA ISLAND—"UU" Homing operative 4 hours prior to ETA. Multiples on 241° leg of "UU" Range. D/F courses and fixes available 2-10 mcs: 14° 20' 03" S, 170° 42' 36" W Warning: Radio-Navigational aids may be inoperative 1900-2100Z for normal maintenance. Tafuna Tower operative 2 hrs prior to ETA and when Planes are enroute.	NPU—4595/8200
	TONGA* (105')—6500 NUKUALOFA*, Land Seadrome—6500	At Field	TONGATABU ISLAND—"TG" Homing operative on request. D/F available 330 kcs: 21° 15' S, 175° 08' E. ZKV operative 2000-0500Z and on request to ZLJ. Nukualofa tower available on request to ZLJ or ZKV.	ZKV—4595/8200*, 330, 6580*
	LAUTHALA, Seadrome—6500		SUVA SEADROME—"LB" Homing operative 2000-0500Z. "M" Racon operative only on request. D/F available 330 & 500 kcs: 18° 08' S, 178° 28' E, also 2-10 mcs: 18° 08' 06" S, 178° 27' 53" E.	ZLJ—330, 6557, 8523, 4595*/ 8200*, 3298.5*
	NAUSORI (15')—6500	At Field	NAUSORI AIRFIELD—"NU" Homing operative days and "N" Racon operative on request only. Nausori Tower operative from 1900-0500Z. ZLJ located at Suva Seadrome but works flights to and from Suva and Nausori. D/F same as Suva.	ZLJ—330, 6557, 8523, 4595*/ 8200*, 3298.5*



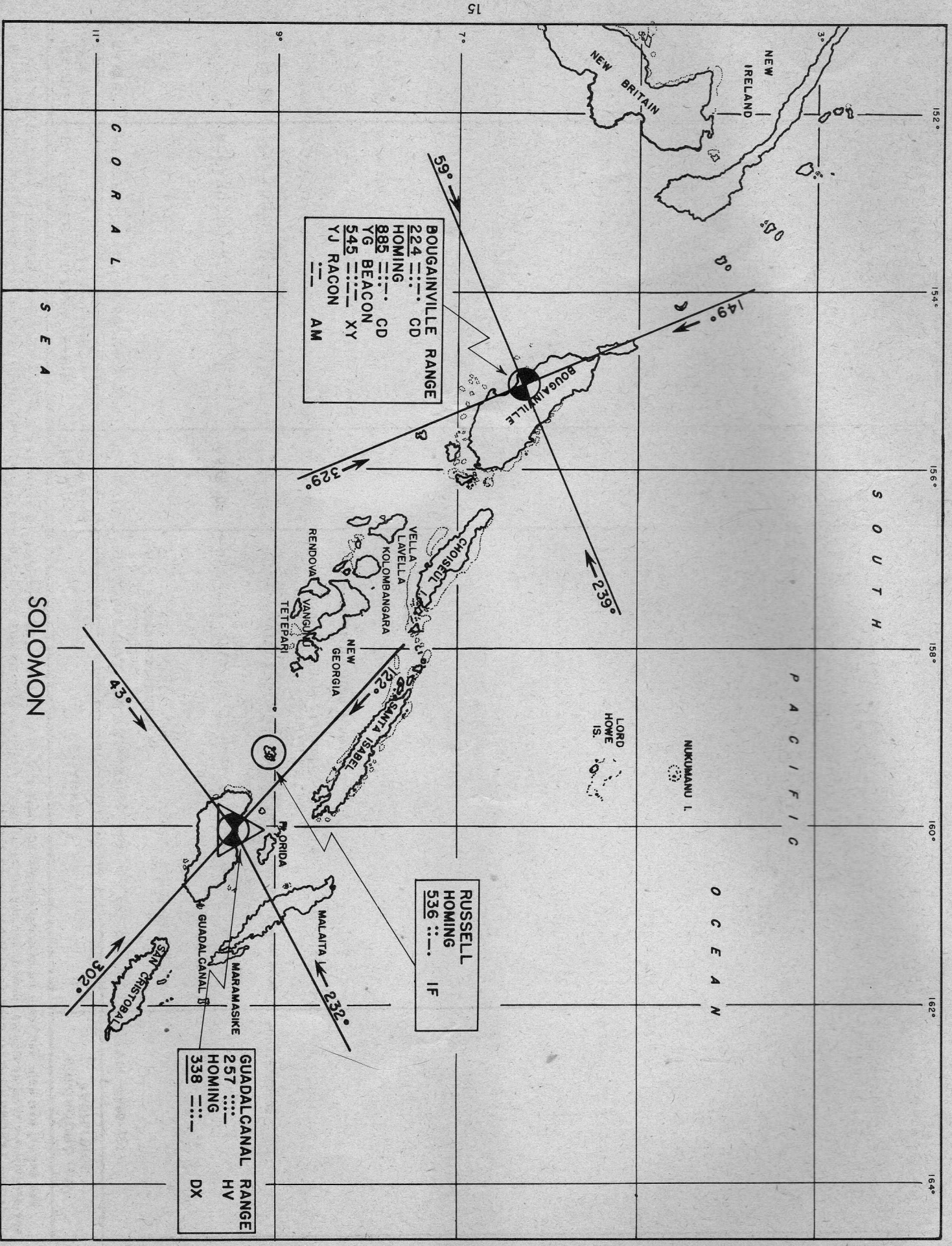
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RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
2.3 @ 119°	PALLIKULO (10')—116.1, 140.58, 4475, 6970, X272, R4495 SECOND Channel Seadrome—140.58, 6500, 6970	0.4 @ 78°	ESPIRITU SANTO ISLAND—"LY" Range 300° leg passes over mountain range, caution. A. F. Brdctng Stn on 1045 kcs. D/F courses and fixes available 2-10 mcs: 15° 29' 31" S, 167° 12' 24" E. SECOND Tower operative on request or 2 hours prior to ETA of flights.	WYVQ—4595/8200
0.6 @ 288°	BAUER (40')—6970	0.4 @ 198°	EFATE ISLAND (BAUER FIELD)—Tower operative on re- quest to WYVQ.	
	PLAINES DES GAIACS—(30')— 140.58, 6970, X272, R4495	1.3 @ 305°	PLAINES DES GAIACS AIRPORT—Tower operative on re- quest to WYVC.	
0.5 @ 110°	TONTOUTA (15')—116.1, 140.58, 6970, X278, R4495	1.7 @ 12°	TONTOUTA AIRDROME—"IH" Range, 111°, 201° and 290° legs have multiples. A. F. Brdctng Stn on 975 kcs. D/F courses and fixes available 2-10 mcs: 22° 01' 39" S, 166° 13' 24" E. Tower operative from 1800-0730Z and when flights are known to be enroute.	WYVC—4595/8200
	MAGENTA (8')—6970, R4495 ISLE NOU—6500		MAGENTA FIELD, NOUMEA—Tower operative days. ISLE NOU, NOUMEA—D/F available 2-18 mcs. NATS Control Launch operative on tower frequencies 20 minutes prior to ETA.	
3.3 @ 314°	WHENUAPAI (85')—4750, 6500, 126.18* 140.58* MECHANIC BAY Seaplane Base—6500	1.5 @ 36°	AUCKLAND (WHENUAPAI AIRPORT)—"FY" Range has Fan Marker located on 135° leg 13.3 miles from field, identi- fication four dashes. Terminal Weather brdct on Homer days only. 1YA Brdctng Stn on 650 kcs operative 1800-1130Z. 12M Brdctng Stn on 1250 kcs. D/F available.	ZLF—4595/8200, 6580.
1.4 @ 292°	NORFOLK (350')—6500, X272*, X4750*, R4750	0.8 @ 195°	NORFOLK ISLAND—Terminal Weather brdct on Homer, days only. Warning: Radio-Navigational aids may be inoperative 0430- 0500Z for normal maintenance. D/F available. CAPE REINGA—"ZLOC" Homing operative 0800-1200 and 1400-1700 local time and on request to ZLF.	ZLG—4595/8200, 330, 6580



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RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
5.4 @ 278°	HENDERSON (28')—116.1, 140.58, 6970, X272, R4495,	5.5 @ 272°	GUADALCANAL ISLAND—Range courses 43°-232°-302° have multiples. A. F. Brdcstng Stn on 690 kcs. D/F courses and fixes available 2-10 mcs: 09° 25' 56" S, 160° 02' 51" E.	WYVM—4595/8200
	RENARD (30')—Light Gun only	0.6 @ 00°	RUSSELL ISLAND—Terminal Weather brdcst on homer 0800-1600 local time.	
3.5 @ 68°	PIVA NORTH (118')—116.1, 140.58, 4475, 6970, X272, R4495	1.2 @ 46°	BOUGAINVILLE ISLAND—Bougainville Australian Brdcstng Stn on 1440 kcs. "CD" Range has multiples on 329° leg. D/F courses and fixes available 2-10 mcs: 06° 12' 40" S, 155° 04' 06" E. Tower operative 1900-1300Z.	WYVE—4595

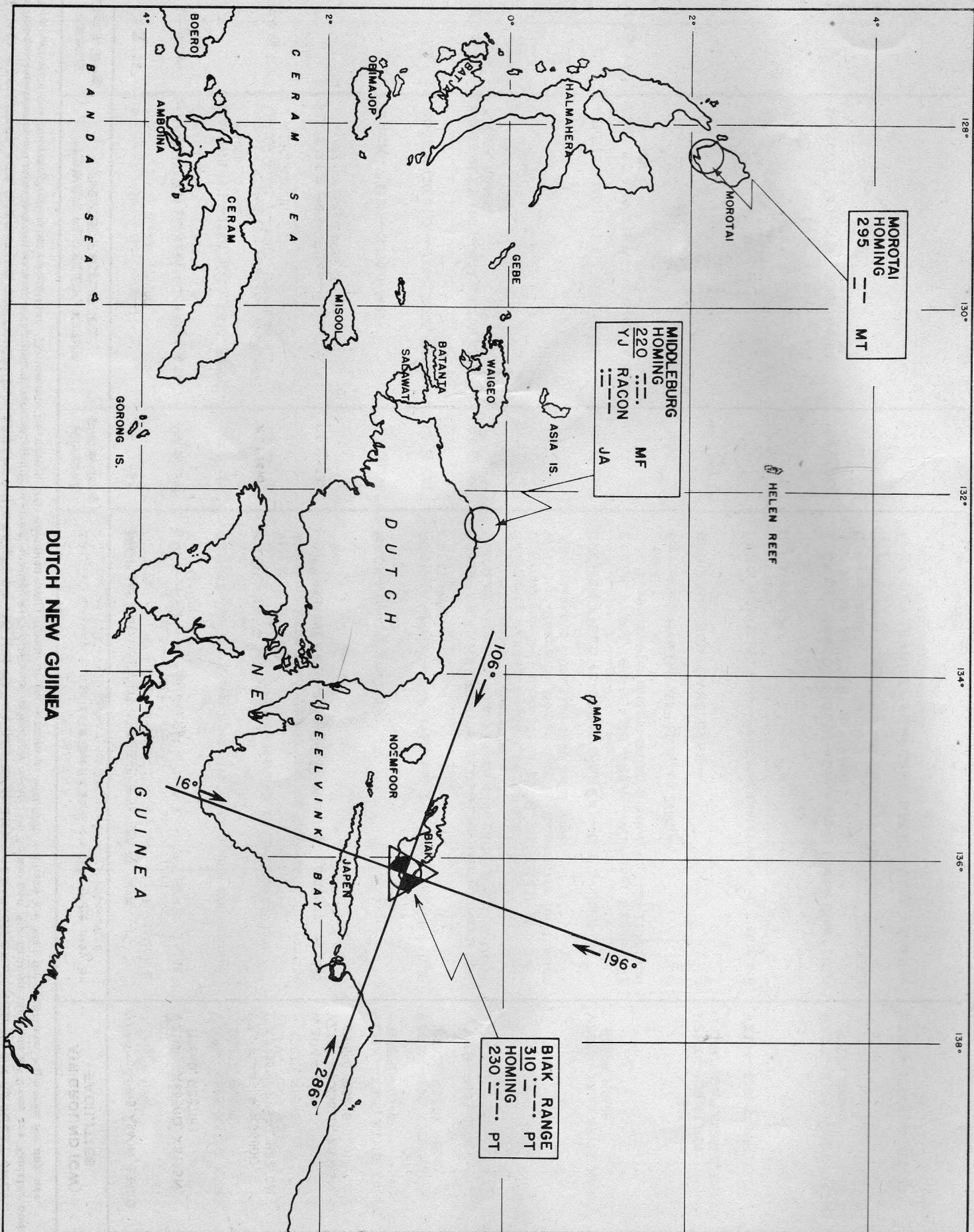


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RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
	FINSCH (30')—116.1, 126.18, X265, R4495, R6500	2.1 @ 45°	CAUTION—Any range or homer listed on this page may be inoperative 1100–1130 local time for routine maintenance.	WXXT—4595
	LAE (12') (D)—4475, X400	At Field	FINSCHHAFEN, N. G.—WVTA A. F. Brdest Stn. on 1320 kcs.	VZLE—X6560D, X6575D, X3135N, X3140N, R6540, R3270N
2.4 @ 295°	FANFARE (25') Mokerang—116.1, 126.18, 140.58, 4305, X265, R4495, R6500	2.5 @ 298°	LAE, N. G.—D/F available. WVTH A. F. Brdest Stn on 1420 kcs.	VZMO—X6560D, X3135N, R6540, R3270N
3.4 @ 169°	SETTER (20') Momote—116.1, 126.18, 140.58, 6500, X350, R4475, R4495	3.2 @ 167°	LOS NEGROS ISLAND—"XZ" Range has slight bend in 115° leg, caution. Emergency Homing, no identification, on 350 kcs.	WXXZ—4595/8200, 5345D
3.9 @ 238°	MERIT BADGE Seaplane Base—116.1, 6500, R4475	3.9 @ 238°	WVTD A. F. Brdest Stn on 1480 kcs. D/F courses and fixes available 2–10 mcs: 02° 01' 48" S, 147° 26' 15" E. During Instrument Weather contact Fanfare Tower.	
17.3 @ 278°	PITYILU (8')—116.1, 140.58, 6500, R4475	17.3 @ 278°		
40.1 @ 287°	PONAM (6')—116.1, 4495	40.1 @ 287°		
	TADJI (14')—116.1, X4495,* X400, R4495		AITAPE, N. G.	VZAT—X6560D, X3135N, R6540, R3270N
	MADANG—116.1, 4495, X400	1.5 @ 355°	MADANG, N. G.—"M. G." Homing operative on request.	VZMG—X6560D, X3135N, R6540, R3270N
11.4 @ 273°	BOLSTER (290') Sentani—116.1, 126.18, X245, R4495, R6500	0.2 @ 180° "XW"	HOLLANDIA, N. G.—Use "XW" Range with caution, multi- ples present. Emergency Homing, no identification, on 245 kcs. WVTF A. F. Brdest Stn on 1480 kcs. D/F courses and fixes available 2–10 mcs: 02° 34' 20" S, 140° 30' 40" E.	VNHL—4595
	JACQUINOT—116.1, X400, R4495	1.3 @ 13°	JACQUINOT BAY—"JB" Homer operative on request.	VZJB—X6575D, X3140N, R6540, R3270N
	JACKSON (98')—116.1, 4495, X400	2.8 @ 40°	PORT MORESBY—D/F available 2–10 mcs: 09° 28' 52" S, 147° 11' 12" E.	VNPM—4595 VZPY—X3140, X3170, X6575, X6585, R3270, R6540
	WARDS Drome—116.1*, X400			
	DOBADURA (189') #4 Strip—116.1, X400, X4495*, R4495	1.3 @ 238°	HORANDA FIELD (DOBADURA)—WVTE A. F. Brdcstng Stn on 1400 kcs. "DO" Homer operative on request.	VZDO—4595, X3140N, X6575D, R6540, R3270N
	GURNEY (65')—116.1, X400, R4495	2.0 @ 248°	MILNE BAY (FALL RIVER)—WVTC A. F. Brdcstng Str on 1480 kcs. D/F available 2–10 mcs: 10° 18' 31" S, 150° 19' 57" E. VHF D/F also available.	VZMY—4595, X3140, X6575, R3270, R6540
	MERAUKE (13')—116.1, 126.18, X245, R4495	2.4 @ 160°	MERAUKE, N. G.—Emergency Homing, No ident, on 245 kcs. HF D/F and VHF D/F available.	VZMR—4595, X3170N, X6585D, R3270, R6540
	HIGGINS (10')—116.1, 4495	2.2 @ 142°	HIGGINS FIELD, AUST.—HF D/F and VHF D/F available.	VZHF—X3170, X6585, R3270, R6540

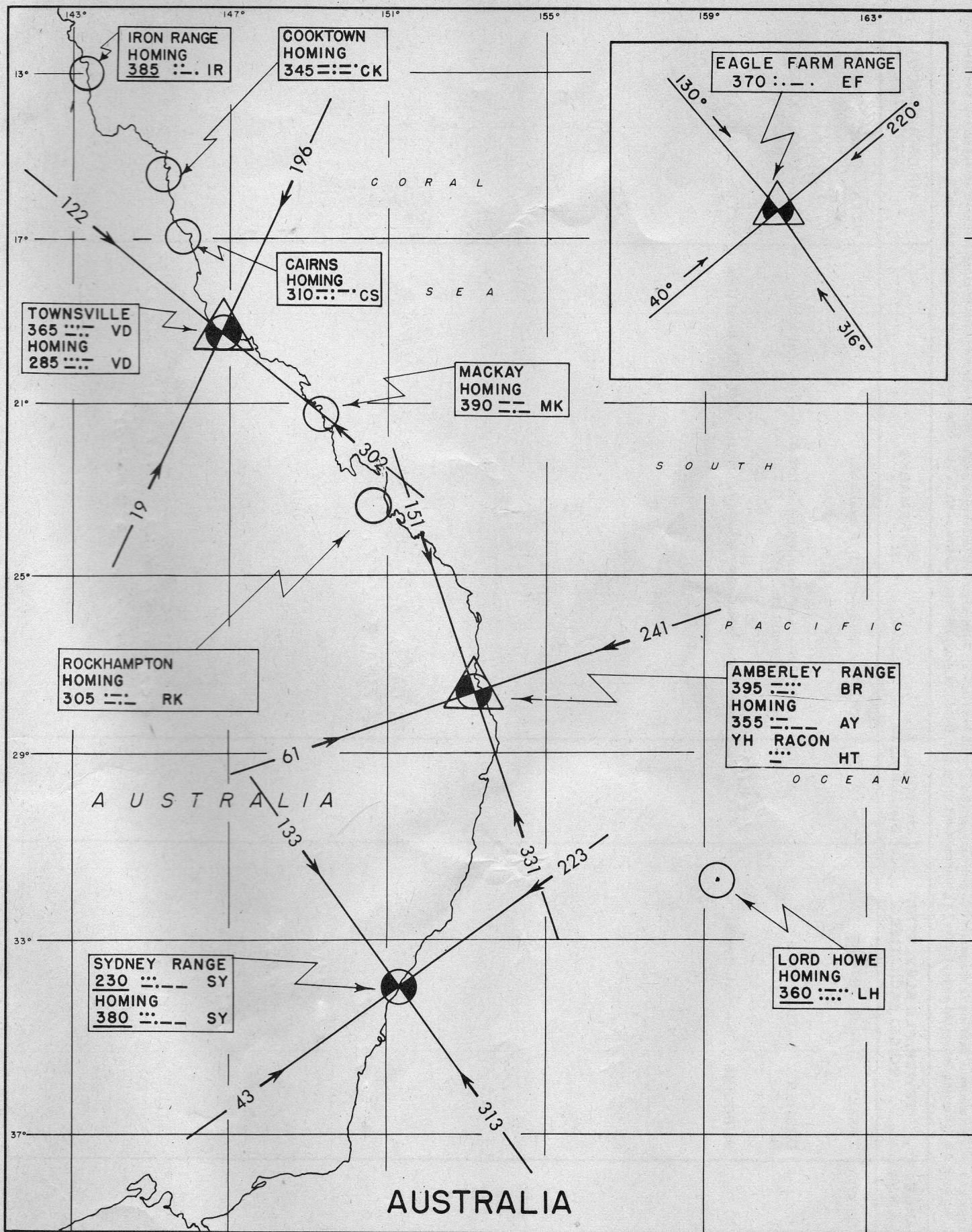
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RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS CAUTION—Any range or homer listed on this page may be inoperative 1100–1130 local time for routine maintenance.	AIR-GROUND (CW) FACILITIES
1.3 @ 98°	WEASEL, (30')—Borokoe—116.1, 126.18, X245, R4495, R6500	0.9 @ 198°	BIAK ISLAND—WVTG A. F. Brdctng Stn on 1450 kcs. "PT" Range 106° leg has bend to South 5 miles from station & 286° leg has bend approximately 15 miles from station. D/F courses and fixes available 2–10 mcs: 01° 13' 03" S, 136° 06' 06" E.	WZPT—4595, 4340N, 5345D VZBA—X6560D, X3135N, R6540, R3270N
0.7 @ 177°	TOUGHY, (42')—Sorido—116.1, 126.18, X210, R4495, R6500 MIDDLEBURG (5') Klenso—116.1, 4475, 4495, X400 BLOOMER (50')—Pitoe—116.1, 126.18, 140.58*, X265, R4495, R6500	1.9 @ 236° At Field 0.5 @ 285°	MIDDLEBURG ISLAND MOROTAI ISLAND—Emergency Homing, no ident, on 265 kcs.	VZMF—4595, X6560D, X3135N, R6540, R3270N WZPS—4595 VZMT—X6560D, X3135N, R6540, R3270



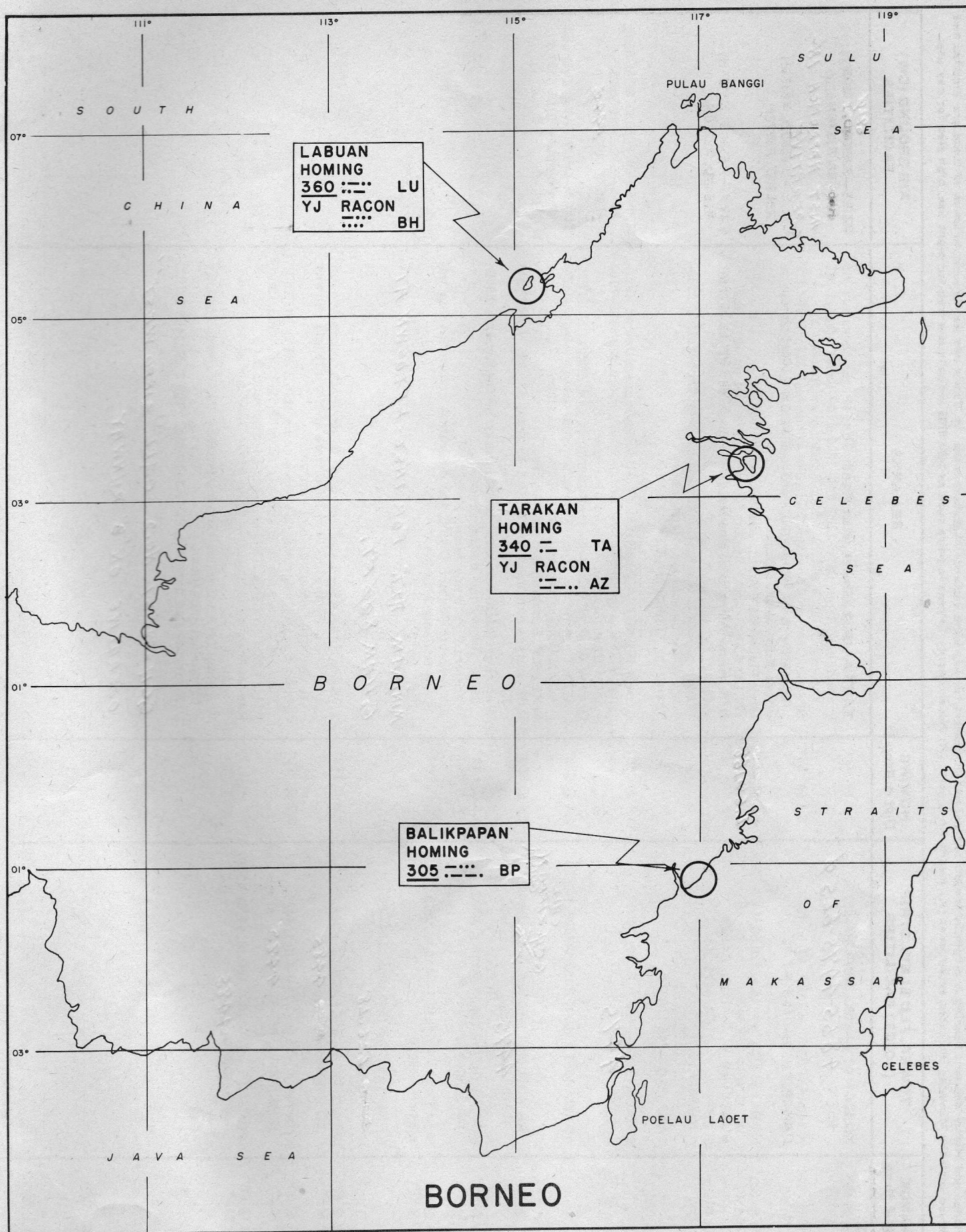
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RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
	COOKTOWN (26')—116.1, 4495	0.5 @ 58°	IRON RANGE—"IR" Homing operative on request.	VZIR—X325, X3170, X6585, R3270, R6540
	CAIRNS (5')—116.1, X265, X310, R3270 R4495	At Field	COOKTOWN—D/F available 2-10 mcs: 15° 29' S, 145° 14' E. VHF D/F available.	VZCK—X325, X3170, X6585, R3270, R6540
5.9 @ 122°	UNIQUE (13')—116.1, 126.18, 4495, X390, R3270	6.0 @ 118°	CAIRNS—Cairns Tower operative when flights are enroute.	VZCS—X325, X3170, X6585, R3270, R6540
			TOWNSVILLE—Emergency Homing, no ident, on 390 kcs. VHF D/F available. Warning: Range and Homer may be inoperative for routine maintenance 1100-1130 local time.	WYVD—4595 VZTV—X325, X3175, X6590, R3270, R6540
	MACKAY (13')—X390, R4495	0.7 @ 195°	MACKAY—D/F available.	VZMK—X325, X3175, X6590, R3270, R6540
	ROCKY (30') (D)—116.1, X305, R4495	1.5 @ 220°	ROCKHAMPTON—D/F available 2-10 mcs and VHF D/F available.	VZRK—4595, X325, X3175, X6590, R3270, R6540
3.8 @ 62°	AMBERLEY (80')—116.1, X210, X245, X355, R4495	0.9 @ 162°	BRISBANE (AMBERLEY FIELD)—Localizer approach fac- ilities operative on channel X, no glide path operative. Outer Marker Beacon in operation. Emergency Homing, no ident, on 210 kcs. D/F available 2-10 mcs: 27° 39' 35" S, 152° 42' 11" E. Warning: Range or Homer may be inoperative for routine maintenance from 1100-1130 local time.	WYVP—4595/8200
	ARCHER (50')—116.1 X385, R4495	1.3 @ 260°	ARCHER FIELD (BRISBANE AREA)—D/F available.	VZBN—X325, X3175, X6590, R3270, R6540
1.6 @ 220°	EAGLE FARM (15')—116.1, 126.18, X245, R4495,		EAGLE FARM (BRISBANE AREA)—Warning: Range may be inoperative for routine maintenance from 1100-1130 local time. Emergency Homing "EF" ident, on 245 kcs.	VZBZ—"CONTROL LAUNCH" X3298.5, R6540
			BRISBANE SEAPLANE BASE—	VZLH—3298.5, 6557, 8523
			LORD HOWE ISLAND—Facilities operative when flights are enroute. D/F available.	
	MASCOT (10')—116.1, X265, R4495	1.2 @ 37°	SYDNEY (MASCOT FIELD)—Commercial Brdcast Stns "2BL" on 740 kcs and "2FC" on 610 kcs. D/F available. Mascot Tower operative when flights are enroute.	VZSY—X325, X3160, X6575, R3270, R6540
			ROSE BAY (SYDNEY SEAPLANE BASE)—VZSD operative when flights are enroute.	VZSD—3298.5, 6557, 8523



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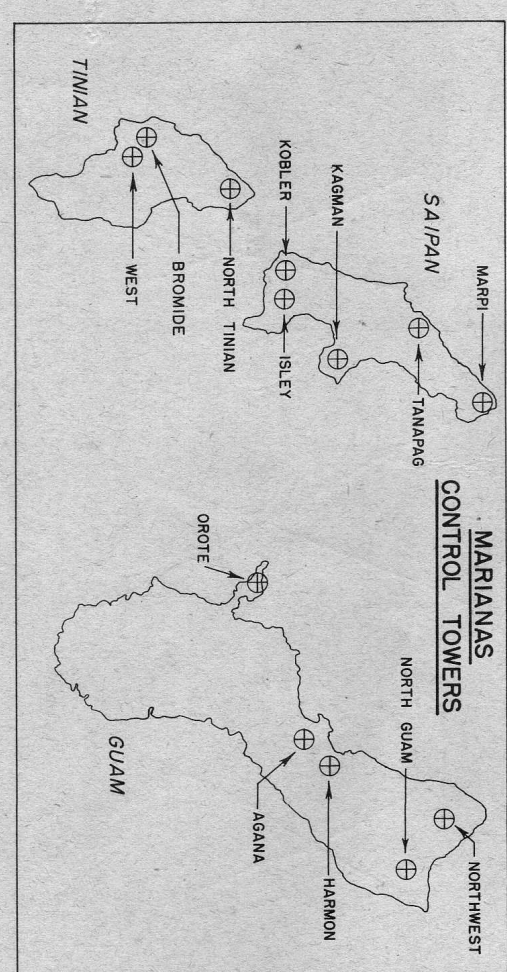
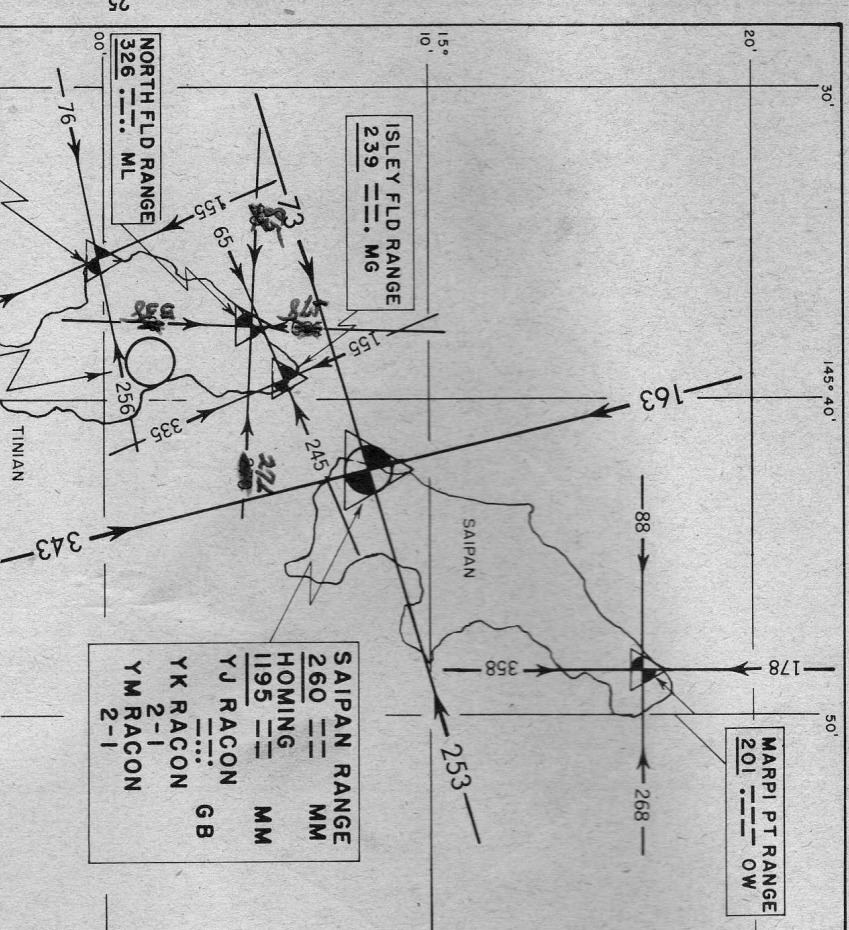
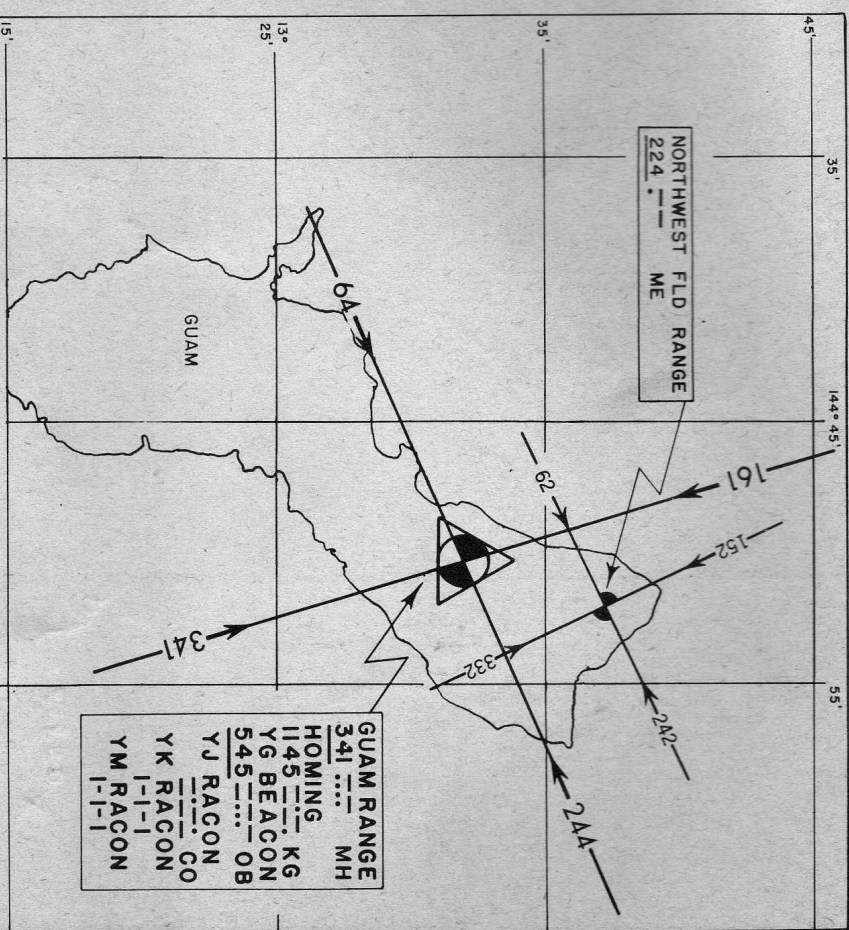
RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
	TOSSLY ()—116.1, R4495		TARAKAN IS.—HF D/F available.	VZTA—X6560D, X3135N, R6540D, R3270N
	DASHER ()—116.1, R4495		LABUAN—"LU" Homing operative 0700-1900 local time. HF D/F available.	VZLU—X6560D, X3135N, R6540D, R3270N
	BUBBLING ()—116.1, R4495		BALIKPAPAN—"BP" Homing operative 0700-1900 local time.	VZYX—X6560D, X3135N, R6540D, R3270N



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RANGE Dist & Brng	TOWER, FLDELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
4.5 @ 65° "MG"	ISLEY (192')—116.1, X272, R4495, R6970 4855-4475-6150	1.6 @ 168°	SAIPAN ISLAND—Localizer and Glide Path operative on channel Z from 0800-1200 and 1300-1700 local time at #7 runway, Isley Field. Marker Beacon also operative.	NDP5—3280/6585, 4595/8200, 6025/6705 INST APPROACH IN- OPERATIVE
4.8 @ 62° "MM"	KAGMAN (236')—116.1, 4475, X368, R4495, R6970	2.4 @ 56°	Ground Control Approach facilities voice call ZIPPO ISLEY operative from 0800-1700 local time, GCA at Kobler operative daily except Sundays.	
1.1 @ 186° "MM"	KOBLER (103')—116.1, 126.18, 4475, X213, R4495, R6970	3.4 @ 230° 2.6 @ 165°	Isley Field "MG" Range located on Tinian. WXLD A.F. Brdcsig Stn on 660 kcs and KSAI on 1010 kcs. D/F courses and fixes available 2-10 mcs: 15° 07' 55 N, 145° 44' 22" E.	
At Field "OW"	MARPI ()—116.1, 4475, X347, R4495, R6970 TANAPAG—116.1, 6970		Warning: Radio-Navigational aids may be inoperative 2200-2300Z for normal maintenance. Transient Flights use Kobler Field.	
	OROTE (100')—116.1, X209, R4495, R6970 4475	11.4 @ 263°	GUAM ISLAND—Localizer and Glide Path operative on channel Y at South Runway of North Field, operative 0800-1700 local time. Marker Beacon also operative.	NPN5—2976/6600, 3280/6585, 3440/6910, 3485/6025, 4595/8200 5440
	AGANA (267') 116.1, X385, R4495, R6970 GCA ZIPPO	2.4 @ 328°	Ground Control Approach facilities voice call ZIPPO NORTH-WEST operative from 0800-1700 local time. Also ZIPPO AGANA operative from 0800-1700 local time.	GUAM-OKINAWA Evacua- tion flights—3815/5897.5
5.0 @ 64° "MH"	HARMON (159')—116.1, X209, R4495, R6970 4475	3.5 @ 358°	WXLI A.F. Brdcsig Stn on 1380 kcs. D/F courses and fixes available 2-10 mcs: 13° 32' N, 144° 49' E.	
0.4 @ 62° "ME"	NORTH GUAM (577')—116.1, X362, R4495, R6970 NORTHWEST (510')—116.1, X272, R4495, R6970	11.5 @ 43°	Warning: Radio-Navigational aids may be inoperative 2300-2400Z for normal maintenance. Transient flights use Agana Field. All Aircraft contact OATC for clearance before leaving en-route cruising altitude.	
	NPN5 OATC—X1145, R6500, R4495, 24053 426.18		MINIMUM HGT. FOR INST LETDOWN AT GUAM 800 FT.	
1.2 @ 67° "MJ"	WEST (252')—116.1, 126.18, X385, 4475, R4495, R6970 4475	3.2 @ 190°	TINIAN ISLAND—Localizer and Glide Path operative on channel X from 0900-1800 local time at North Field runway A. Marker Beacon also operative.	
0.4 @ 90° "ML"	NORTH TINIAN (70')—116.1, 4475, X368, R4495, R6970 4475	3.0 @ 20°	Ground Control Approach facilities voice call ZIPPO NORTH TINIAN operative at B runway from 0800-1800 local time. Also ZIPPO BROMIDE at West Fields 1 and 2.	
1.2 @ 67° "MJ"	BROMIDE ()—116.1, 126.18, 4475, X230, R4495, R6970 4475		Ranges may be inoperative from 0100-0130Z for normal maintenance. Warning: "KA" Homing inoperative 0300-0600Z each Tuesday for normal maintenance. D/F courses and fixes available 2-10 mcs: 15° 3' N, 145° 38' E.	

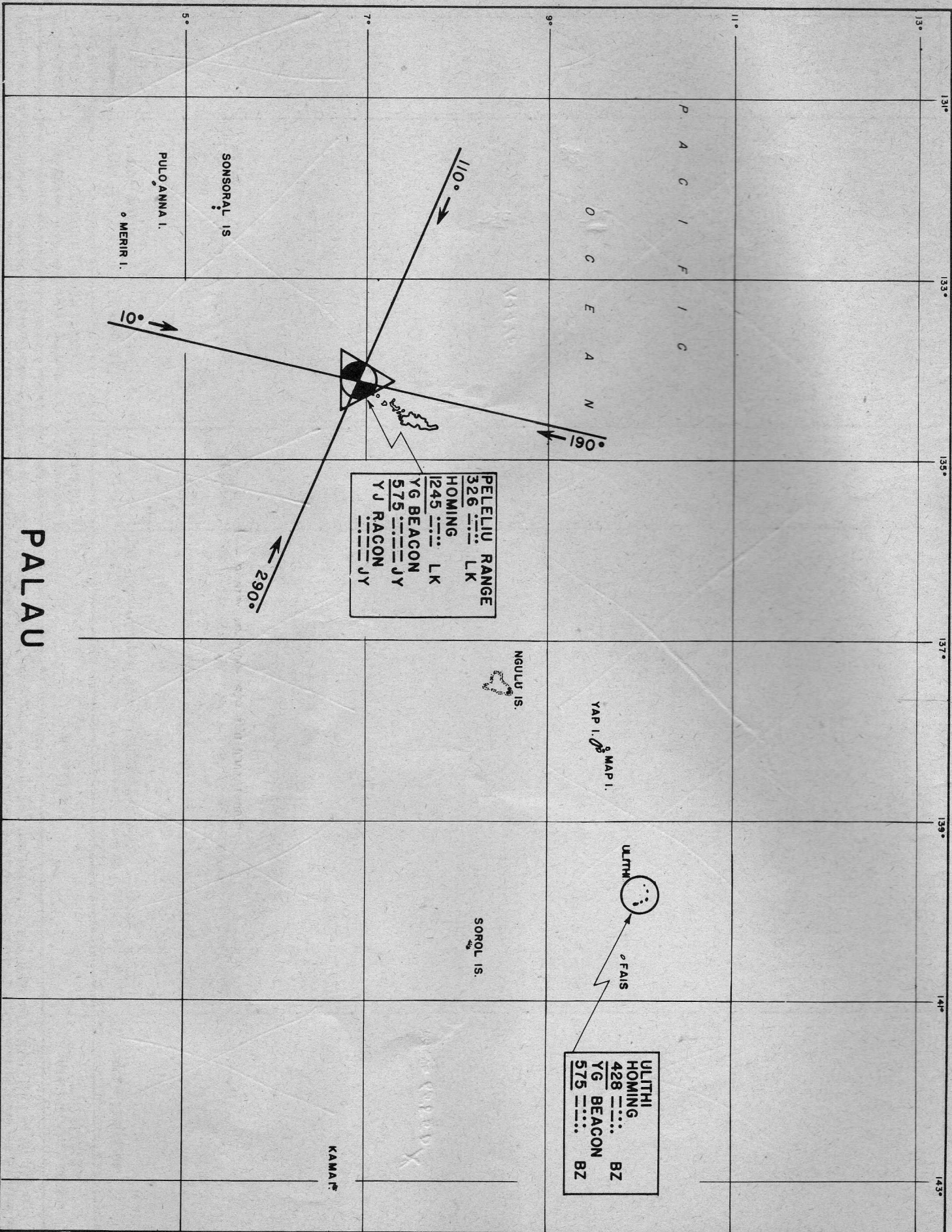
**GCA - WEST NO.2 CALL 'ZIPPO WEST'
OPERATIVE ON 'B' RUNWAY**



MARIANAS

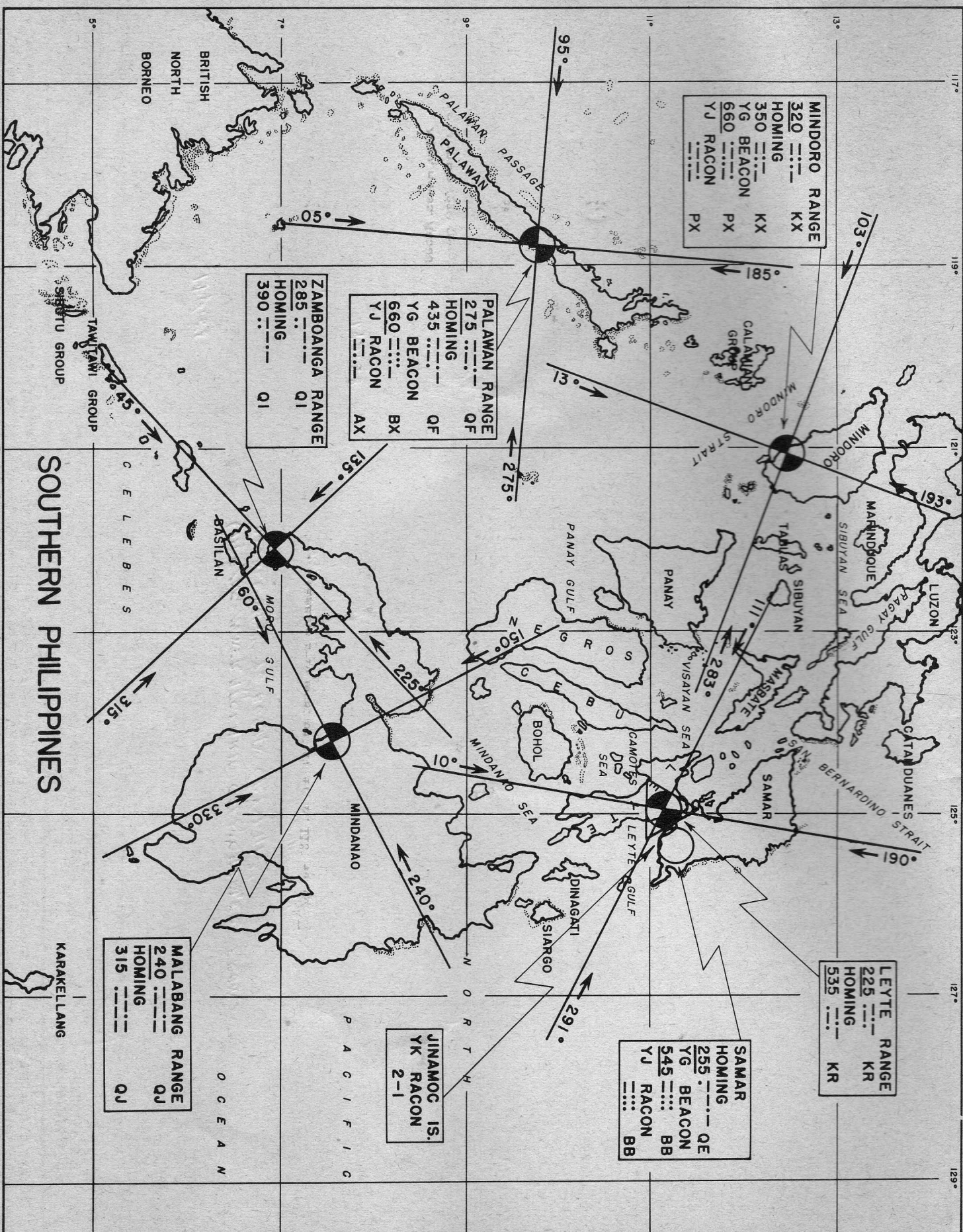
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RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
7.6 @ 205° 40 @ 205°	PELELIU—116.1, 126.18, 0200 , X272, R4495, R6970	1.6 @ 198°	PELELIU ISLAND—"LK" Range located on Ngesebus Island. D/F courses and fixes available 2-10 mcs: 6° 58' 34" N, 134° 14' 15" E.	WVNC5—4595/8200
	ULITHI (3.5')—116.1, X272, R4495, R6970	At Field	ULITHI ISLAND—WVTY A. F. Brdcstng Stn on 1340 kcs, operative 2000-2215 and 0001-1200Z.	



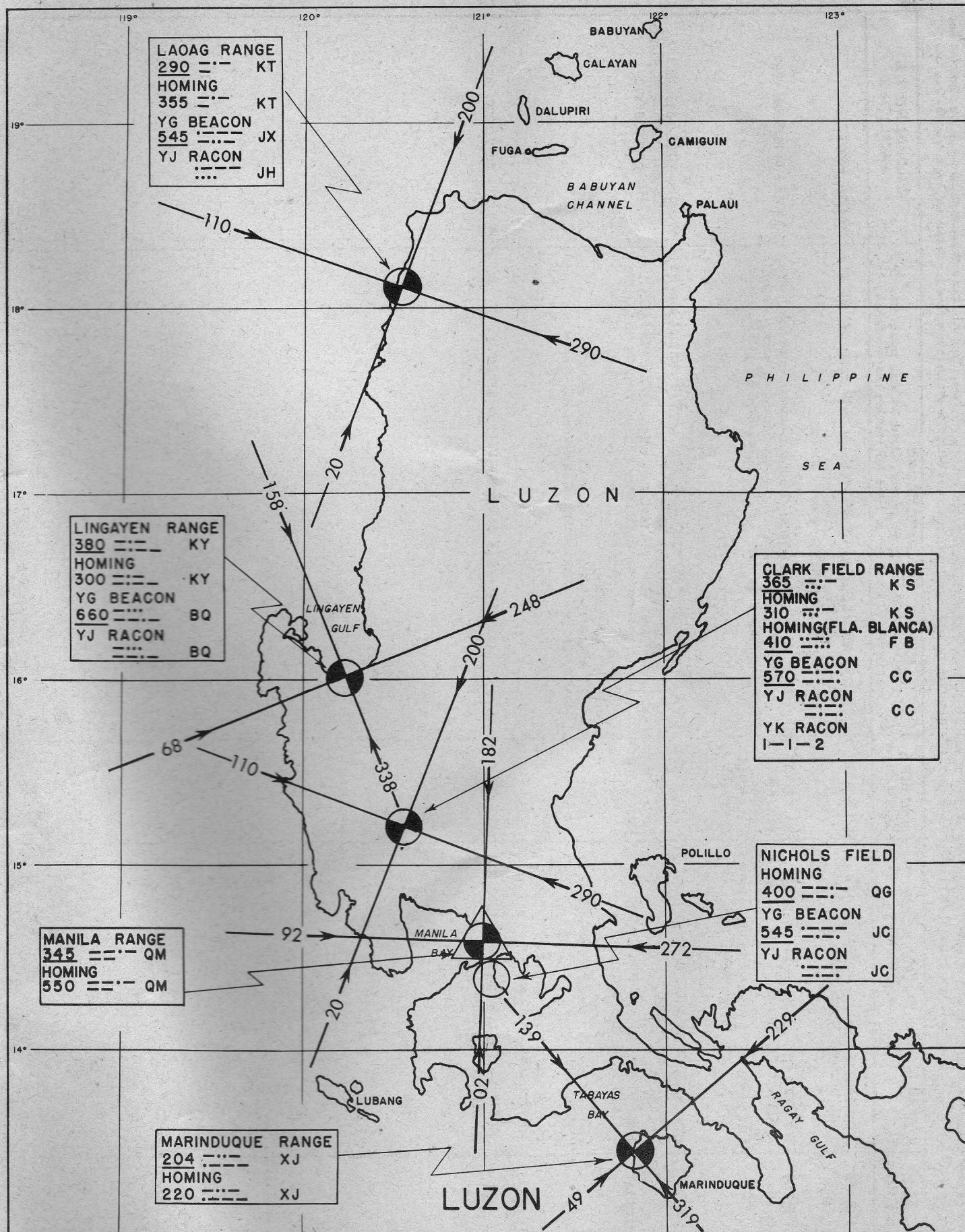
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RANGE Dist & Brng	TOWER, FLDELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
0.5 @ 238°	ZAMBO—(25') Moret—116.1, 126.18, 6720, X210, R4495, R6500	0.7 @ 298°	CAUTION—Any range or homer listed on this page may be inoperative 1100–1130 local time for routine maintenance.	WUQI—4595
0.5 @ 240°	COWSHED (125') LIBBY—116.1, 126.18, X245, R4495, R6500	0.3 @ 165°	ZAMBOANGA (MINDANAO)—D/F courses and fixes available 2–10 mcs: 06° 55' 35" N, 122° 04' 20" E. Emergency Homing, no ident, on 230 kcs.	WUQJ—4595
3.0 @ 175°	SCRAPPER (29') Titcomb—116.1, 126.18, X290, R4495, R6500	3.0 @ 176°	DAVAO (MINDANAO) — Cowshed tower operative 2200–0900Z.	WUQF—4595
51. @ 103° "KR"	WAITRESS (28') Palawan—116.1, 126.18, X210, R4495, R6500	0.8 @ 198°	MALABANG (MINDANAO)—Tower operative 0500–1930 local time.	WUQE—4595, 6025, 5345D
2.5 @ 42°	COLGATE, Puerto Princessa, NAB— (D)—140.58, 6500	2.2 @ 34°	PALAWAN, P. I.—"QF" Range has course error, over water, of minus 5° on all legs. D/F available 2–10 mcs: 09° 47' 47" N, 118° 45' 00" E.	WXKR—4595, 6430X 6585 6585D
16.6 @ 174°	SAMAR (7')—Guian—116.1, 126.18, 140.58, X400, R4495, R6500	16.7 @ 176°	SAMAR, P. I.—Bearing listed is to range on Leyte Island.	
5.5 @ 162°	CHEEKY (6') Tacloban—116.1, 126.18, X290, R4495, R6500	5.5 @ 167°	LEYTE, P. I.—"KR" Range 111° leg has bend to South 10 miles from station and 10° leg has bend to East 8 miles from station. Localizer and Glide Path operative on Channel Z from 0500–0630 and 1500–2130 local time at Dulag Strip. Emergency Homing, no ident, on 265 kcs. D/F courses and fixes available 2–10 mcs: 11° 11' 23" N, 124° 59' 53" E.	
1.2 @ 285°	CLIPPER (23') Dulag—116.1, 126.18, X210, R4495, R6500	4.4 @ 176°	JINAMOC IS.— MINDORO, P. I.—D/F available 2–10 mcs: 12° 26' 10" N, 121° 02' 10" E. Localizer operative on Channel Z and Glide Path operative on GZ Channel at McGuire Strip. Marker Beacon also operative.	WXKX—4595
	VELVET (5') Tanuan—116.1, 126.18, X265, R4495, R6500 R4475		PANAY, P. I.—Tower operative 0500–1930 local time.	WUQN—4595
	GUSTO, Seadrome—140.58, 4475, 6500		CEBU, P. I.—Emergency Homing, no ident, on 210 kcs. Pigmeat Tower operative 0600–1930 local time.	
	VISTA, (11') McGuire—116.1, 126.18, 140.58, X210, R4495, R6500			
	ONION (17') Mandurriao—116.1, 6500, X200, R4495			
	CATFOOT (20') Opon, Mactan Is.— 116.1, 126.18, X260, R4495, R6500			
	PIGMEAT (106') Lahug—116.1, 126.18, X210, R4495, R6500			



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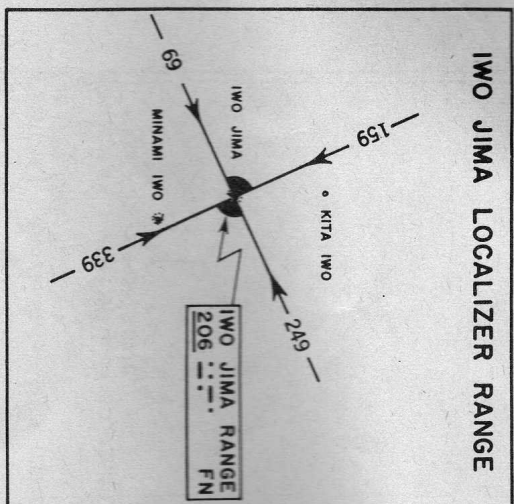
RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
0.6 @ 296°	GOATEE (9') Goatee—(D)—116.1, 126.18, X265, R4495, R6500	1.9 @ 78°	CAUTION—Any range or homer listed on this page may be inoperative 1100–1130 local time for routine maintenance.	WXKY—4595
2.1 @ 200°	BORAX (475') #1 Strip—116.1, 126.18, X200, R4495, R6500 <i>140.58</i> ESQUIRE (150') Florida Blanca—116.1 126.18, X215, R4495, R6500	1.3 @ 317° "KS" At Field "FB"	LINGAYEN (LUZON)—D/F available 2–10 mcs: 16° 02' N, 120° 15' 02" E. "KY" Range has multiples on all courses. CLARK FIELD (LUZON)—Ground Control Approach voice call ZIPPO BORAX, available on request to Borax Tower. D/F available 2–10 mcs: 15° 11' 38" N, 120° 34' 14" E. <i>(VHF/D/F HOMER AT CLARK—CALL CHAMBER FROM DOODLEBUGS TO BORAX CRYSTAL)</i>	WXKS—3640/5200, 4595
5.8 @ 351°	BIRDSONG () Nielson—116.1, 126.18, X240, R4495, R6500	4.3 @ 184° "QM"	MANILA AREA (LUZON)—All Airways will contact Manila Airways 20 minutes prior to ETA over "QM" Range.	WUQM—3280/6585, 3555/ 6555, 3640/5200, 4595, 5345D, 5725D, 6025D, 6430D
4.0 @ 341°	JACNIC (16') Nichols Fid.—116.1, 126.18, X265, R4495, R6500 <i>140.58</i> LIBEL, Sangley Point Sdme—140.58, 4475, 6500 MANILA AIRWAYS—X4250, R4495, R6500, 5055, 5860	0.6 @ 155° "QG"	Ground Control Approach facilities, voice call ZIPPO JACNIC, operative 0700–1700 local time and on request to Jacnic Tower. VHF D/F available. D/F available 2–10 mcs: 14° 30' 35" N, 121° 00' 29" E. WVTM A. F. Brdctng station on 1300 kcs.	
0.3 @ 46°	NIGHT CLUB (12') Gabu—116.1, 126.18 X235, R4495, R6500	0.2 @ 68°	LAOAG (LUZON)—D/F available 2–10 mcs: 18° 11' 25" N, 120° 29' 30" E.	WXKT—3640/5200, 4595, 4340N



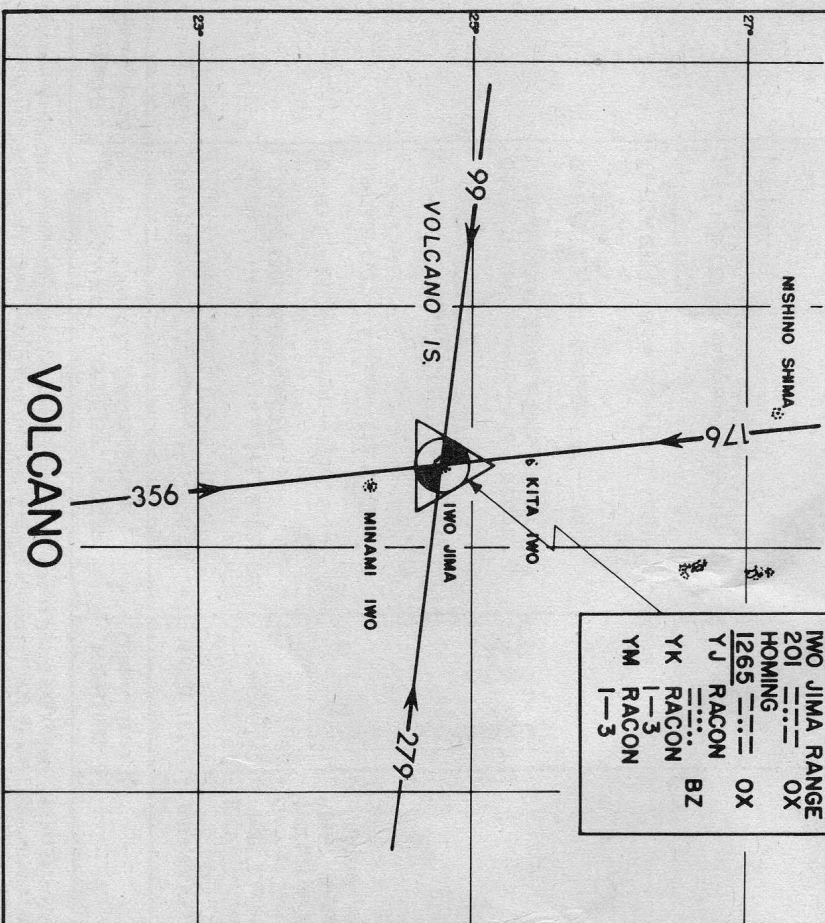
ALL FACILITIES ARE OPERATIVE CONTINUOUSLY EXCEPT WHERE (D) OR (N) INDICATES DAY OF NIGHT OPERATION ONLY AND (*) ON REQUEST ONLY. In Range and Homer columns bearing is magnetic toward nearest end of nearest runway with distance in statute miles. In Tower and Air-Ground columns all freds are Xmitted and Received with the following indicated exceptions: (X) means Xmit only, (R) Receives only. Freqs in pairs such as 3450/6705 indicate low freq for night use, high freq for day use.

RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
0.2 @ 20° "OX" 0.5 @ 69° "FN"	MAPLE () South Field—116.1, 4475, 6970, X272, R4495 WALNUT () Central Field—116.1, 4475, 6970, X244, R4495 PEARL (North—116.1, 4475, 6970, X227, R4495	0.3 @ 28°	IWO JIMA—Ground Control Approach facilities voice call ZIPPO MAPLE and ZIPPO WALNUT operative on request to respective tower. Localizer and Glide Path operative on channel Z from 0730- 1730 local time at Runway 7, Central Field. Marker Beacons also operative. "FN" Range operative nights and during Instrument Weather. YJ and YK Racons operative nights. "OX" Range has voice call Walnut Radio. D/F available 2-10 mcs: 24° 45' 45" N, 141° 17' 52" E.	NDC5—3640/5200, 4595/8200 OKINAWA-GUAM Evacua- tion flights—3815/5897.5
			MARCUS—	NVL5—4595/8200

IWO JIMA LOCALIZER RANGE



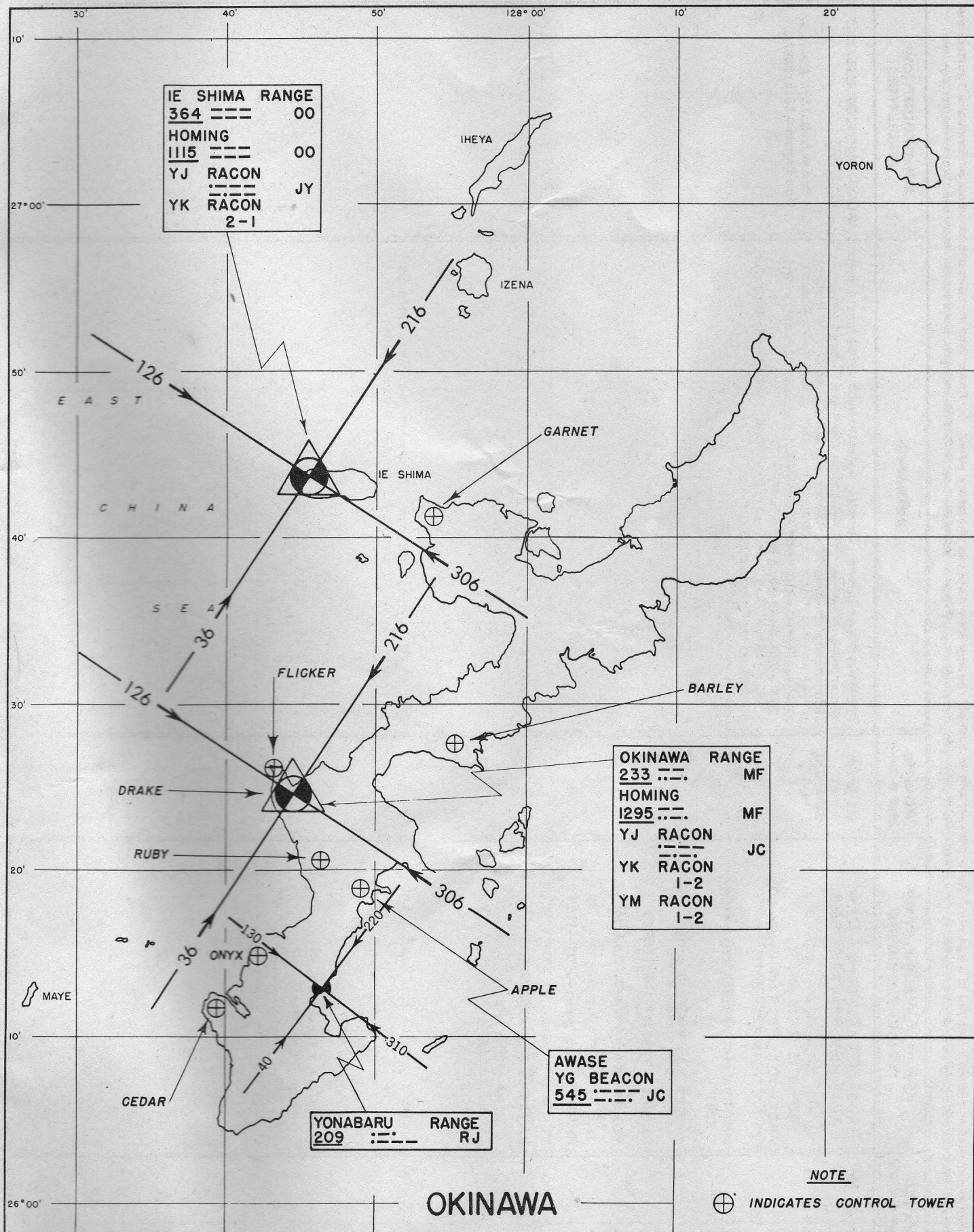
IWO JIMA RANGE	OX
201	OX
HOMING	OX
1265	OX
YJ RACON	BZ
YK RACON	BZ
YM RACON	BZ
1-3	BZ



MARCUS

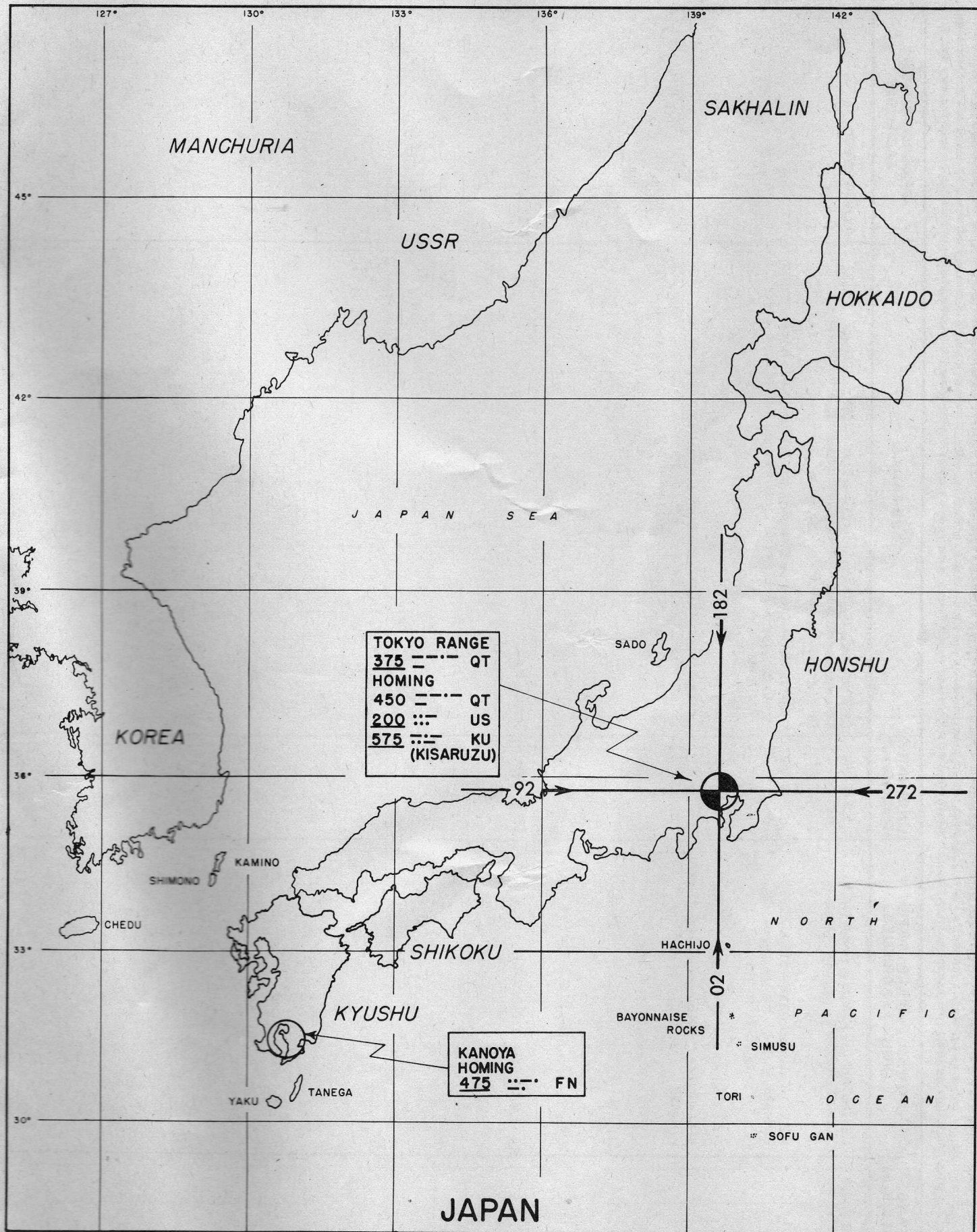
ALL FACILITIES ARE OPERATIVE CONTINUOUSLY EXCEPT WHERE (D) OR (N) INDICATES DAY OF NIGHT OPERATION ONLY AND (*) ON REQUEST ONLY.
In Range and Homer columns bearing is magnetic toward nearest end of nearest runway with distance in statute miles. In Tower and Air-Ground columns all freqs are Xmitted and Received with the following indicated exceptions: (X) means Xmit only, (R) Receives only. Freqs in pairs such as 3450/6705 indicate low freq for night use, high freq for day use.

RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
1.1 @ 137°	DRAKE (240') Yontan—116.1, 126.18, 139.32, 6500, X251, R4495, R6970	1.0 @ 19°	OKINAWA—Ground Control Approach facilities, voice call ZIPPO DRAKE at Yontan Field, operative 2200-0800Z. D/F available 2-10 mcs: 26° 23' 41" N, 127° 43' 56" E. "RJ" Localizer Range operative during instrument weather. Garnet Tower operative 0200-0930Z. WXLH A. F. Brdcstg Stn on 1060 kcs. "MF" Range may be inoperative from 2300-2400Z daily for normal maintenance.	ND15—3640/5200, 4595/8200 3916/5425 OKINAWA-GUAM Evacua- tion flights—3815/5897.5
4.3 @ 155°	RUBY () Kadena—116.1, 126.18, 127.08, X272, 6500, R4495, R6970 BARLEY (173') Chimu—116.1, 6970 APPLE (12')—Awase—116.1, 6970, R4475 CEDAR () Naha—116.1, 126.18, 139.32, 6500, X260, R4495, R6970 ONYX () Machinato—116.1, 126.18, 129.06, 6500, X396, R4495, R6970 GARNET (145') Motobu "A"—116.1, 126.18, 6500 FLICKER () Bolo #2—116.1, 126.18, 6500 OAKRA (20') Yonabaru NAB—116.1, 126.5, 140.58, 6440, 6500, 6970, X290, R4495			
1.9 @ 118°	PLUM () East Strip—116.1, 126.18, 139.32, 6970, R4495 BIRCH () Middle Strip—116.1, 126.18, 6970, 6500, X278 MOCHA () West Strip—116.1, 126.18, 6500, X219, R4495, R6970	0.5 @ 331°	IE SHIMA—Ground Control Approach facilities, voice call ZIPPO PLUM, operative on request to Plum tower.	



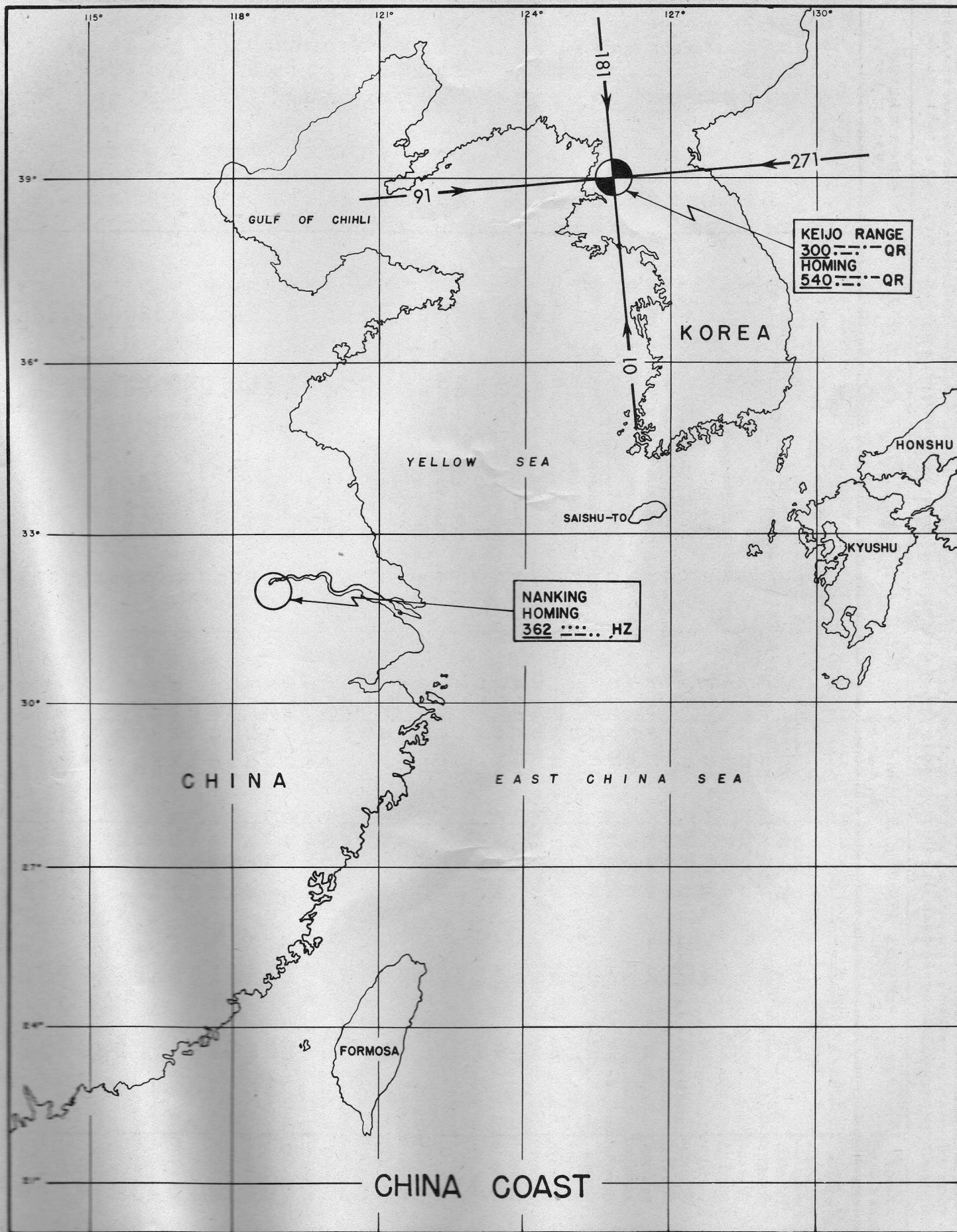
ALL FACILITIES ARE OPERATIVE CONTINUOUSLY EXCEPT WHERE (D) OR (N) INDICATES DAY OF NIGHT OPERATION ONLY AND (*) ON REQUEST ONLY.
In Range and Homer columns bearing is magnetic toward nearest end of nearest runway with distance in statute miles. In Tower and Air-Ground columns all freqs are Xmitted and Received with the following indicated exceptions: (X) means Xmit only, (R) Receives only. Freqs in pairs such as 3450/6705 indicate low freq for night use, high freq for day use.

RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
0.4 @ 00°	<p>IMAGE (105') Atsugi—116.1, 126.18, 139.32, 140.58, X290, R4495, R6500</p> <p>FREEBOOT (278') Tachikawa—(D)—116.1, 126.18, X233, R4495</p> <p>KNOTTY (164') Chofu—(D)—116.1, X245</p> <p>KISSER (10') Kisarazu—116.1</p> <p>RENO () Yokota—116.1, 128.18</p> <p>YOKOSUKA () NAB—116.1, 140.58, 142.74, 6500</p> <p>IRISH () Irumigawa—(D)—116.1</p> <p>BAYLEAF ()—116.1, 126.18</p>	<p>0.3 @ 278° "QT" 5.0 @ 330° "US"</p> <p>1.0 @ 180°</p>	<p>TOKYO AREA—"KU" Homing operative 0500-2100 local time. Emergency Homing "AT" ident, on 290 kcs at Image twr. Emergency Homing "FA" ident, on 233 kcs days at Freeboot twr. Emergency Homing "SG" ident on 245 kcs days at Knotty twr. D/F available 2-10 mcs:</p> <p>KANOYA—</p>	<p>WUQT—4595, 3640/5200</p> <p>WZFN—4595</p>



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RANGE Dist & Brng	TOWER, FLD ELEV., STRIP (VOICE) FACILITIES	HOMING Dist & Brng	REMARKS	AIR-GROUND (CW) FACILITIES
1.3 @ 258°	LEGHORN () Kimpø Adme—116.1 126.18, R6500	1.2 @ 266°	KEIJO—"QR" Range operative 2100-0700Z Tower operative 2200-0900Z and one hour prior to ETA.	WUQR—4595
	HZ () Taichiao Chan—116.1, X295, R4495	0.5 @ 169°	NANKING—Chinese Brdcstng stn XGOB on 660 kcs operative from 2200-1400Z, with identification announced every 15 minutes. HZ Tower operative from 2200-1300Z.	
	SHANGHAI () Kiangwan—116.1, X270, R4495		SHANGHAI—XGOI Brdcstng stn operative on 900 kcs, from 2300-1400Z with ident given every 5 minutes. Also stn XMHC on 708 kcs, from 1400-2300Z with ident given every 5 minutes.	



HOMING BEACONS IN THE PACIFIC AREA

(LISTED NUMERICALLY BY PAGE)

Terminal weather broadcast on Homing Beacon at 05 & 35 minutes past GCT hour is indicated by symbol (†) following Homing frequency, example (428 †) and at 15, 35 & 55 minutes past GCT hour is indicated by symbol (#), example (428 #). All Terminal Weather broadcasts on Homing beacons listed this page are in "UO PLAIN."

Page	Location	Iden.	Freq.	Latitude	Longitude	Page	Location	Iden.	Freq.	Latitude	Longitude
1	Farallon	FQ	407	37° 40' N	123° W	17	Milne Bay	MY	290	10° 18' 36" S	150° 22' 16" E
1	Hamilton Field	DHF	528	38° 05' 30" N	122° 30' 05" W	17	Port Moresby	XD	300	09° 28' 20" S	147° 10' 45" E
3	Hickam Field	WZJ	428	21° 20' 40" N	157° 58' W	19	Biak	PT	230	01° 08' 36" S	136° 04' 42" E
3	South Cape	KC	524	18° 57' N	155° 40' W	19	Middleburg	MF	220	00° 25' S	132° E
5	Christmas	RG	885	01° 58' 20" N	157° 21' 02" W	19	Morotai	MT	295	02° 03' 30" N	128° 20' 15" E
5	Johnston	QJ	234	16° 45' 12" N	169° 29' 51" W	21	Cairns	CS	310	16° 53' S	145° 45' E
5	Midway	NQM	555	28° 12' 17" N	177° 22' 17" W	21	Cooktown	CK	345	15° 26' 30" S	145° 11' 05" E
5	Palmyra	JY	364	05° 53' 19" N	162° 05' 30" W	21	Townsville	VD	285	19° 12' 21" S	146° 41' 08" E
7	Aitutaki	DF	528	18° 50' S	159° 45' W	21	Amberley	AY	355	27° 38' S	152° 42' E
7	Bora Bora	IC	280	16° 26' 40" S	151° 43' 20" W	21	Makay	MK	390	21° 10' S	149° 11' E
7	Canton	BY	1015	02° 47' S	171° 41' W	21	Rockhampton	RK	305	23° 27' 06" S	150° 30' 38" E
7	Funafuti	FA	407	08° 31' 31" S	179° 12' 30" E	21	Lord-Howe	LH	360	31° 31' S	159° 04' E
7	Penrhyn	DO	536	09° 03' S	158° 03' W	21	Sidney	SY	380	33° 56' S	151° 11' E
9	Tarawa	MA	1175	01° 20' 46" N	172° 57' 08" E	23	Iron Range	IR	385	12° 47' S	143° 18' E
9	Eniwetok	GY	476	11° 21' 45" N	162° 21' 16" E	23	Tarakan	TA	340	03° 18" N	117° 36" E
9	Kwajalein	MC	1245	08° 44' 50" N	167° 41' 30" E	23	Labuan	LU	360		
9	Majuro	MD	518	07° 05' N	171° 22' 40" E	21	Balikpapan	BP	305		
11	Nandi	JR	432	17° 49' S	177° 24' 30" E	25	Guam	KG	1145	13° 27' N	144° 48' 40" E
11	Nausori	NU	260	18° 02' S	178° 33' E	25	Saipan	MM	1195	15° 08' 48" N	145° 44' 10" E
11	Suva Seadrome	LB	367	18° 09' 14" S	178° 26' 40" E	25	Tinian	KA	400	15° 02' 30" N	145° 37' 50" E
11	Tongatabu	TG	285			27	Peleliu	LK	1245	07° 01' 14" N	134° 15' 01" E
11	Tutuila	UU	338	14° 19' 42" S	170° 45' W	27	Ulithi	BZ	428	10° 01' 45" N	139° 46' 35" E
13	Auckland	WP	437	36° 46' 45" S	174° 36' 11" E	29	Leyte	KR	535	11° 11' 37" N	125° 00' 27" E
13	Cape Reinga	ZLOC	315	34° 25' 42" S	172° 40' 30" E	29	Mindoro	KX	350	12° 25' 55" N	121° 02' 40" E
13	Norfolk	KN	420	29° 01' 54" S	167° 56' 39" E	29	Malabang	QJ	315	07° 37' 17" N	124° 02' 51" E
13	Efate	HF	1315	17° 41' 30" S	168° 17' 52" E	29	Palawan	QF	435	09° 47' 13" N	118° 44' 41" E
13	Espiritu Santo	OP	240	15° 29' 54" S	167° 14' 06" E	29	Samar	QE	255	11° 03' N	125° 43' E
13	Plaines des Gaïacs	IM	405	21° 16' 50" S	164° 54' 23" E	29	Zamboanga	QI	390	06° 55' N	122° 04' 40" E
13	Tontouta	IH	528	22° 03' 04" S	166° 12' 12" E	31	Laoag	KT	355	18° 11' 25" N	120° 32' 35" E
15	Bougainville	CD	885	06° 13' 10" S	155° 02' 03" E	31	Clark Field	KS	310	15° 10' 55" N	120° 33' 58" E
15	Guadalcanal	DX	338	03° 26' S	160° 08' E	31	Clark (Fla. Blanca)	FB	410	14° 59' 20" N	120° 29' 28" E
15	Russell	IF	536	09° 04' 20" S	159° 14' E	31	Lingayen	KY	300	16° 01' 50" N	120° 12' 57" E
17	Finschhafen	XT	315	06° 39' 47" S	147° 50' 04" E	31	Nichols Field	QG	400	14° 38' 15" N	121° 01' 52" E
17	Lae	LE	200	06° 43' 45" S	146° 59' 45" E	31	Manila	QM	550	13° 22' N	121° 49' E
17	Los Negros	XZ	235	02° 00' 13" S	147° 25' 15" E	31	Marinduque	XJ	1265	24° 45' 45" N	141° 17' 52" E
17	Hollandia	XW	395	02° 35' S	140° 30' E	33	Iwo Jima	OX	1295	26° 22' 14" N	127° 44' 36" E
17	Jacquinot Bay	JB	305			35	Okinawa	MF	1115	26° 42' 47" N	127° 47' 35" E
17	Madang	MG	235			35	Ie Shima	OO	450	35° 26' 30" N	139° 26' E
17	Higgins	HF	240	10° 56' S	142° 28' E	37	Tokyo	UT	200	35° 24' 30" N	139° 26' E
17	Horanda	DO	385	08° 46' 40" S	148° 22' 30" E	37	Tokyo (Kisaruzi)	KU	575	37° 32' N	126° 53' E
17	Merauke	MR	275	08° 32' 06" S	140° 25' 54" E	37	Kahoya	FN	475		
						39	Keljo	QR	540		
						39	Nanking	HZ	362		

RADIO RANGES IN THE PACIFIC AREA

(L I S T E D N U M E R I C A L L Y B Y P A G E)

Page	Location	Ident.	Freq.	Latitude	Longitude	Page	Location	Ident.	Freq.	Latitude	Longitude
1	Fairfield.....	DFA	248	38° 18' 30" N	121° 52' 15" W	17	Los Negros.....	XZ	200	02° 00' 03" S	141° 25' 15" E
1	Oakland.....	OA	335	37° 44' 30" N	122° 13' 12" W	17	Hollandia.....	XW	375	02° 35' S	140° 41' E
3	Barking Sands.....	MI	242	22° 02' 52" N	159° 46' 50" W	19	Biak.....	PT	310	01° 10' 11" S	136° 04' 40" E
3	Port Allen.....	KF	227	21° 53' 10" N	159° 29' 10" W	21	Townsville.....	VD	365	19° 12' 07" S	146° 41' 25" E
3	Honolulu.....	HZ	344	21° 19' 40" N	157° 59' 35" W	21	Amberley Field.....	BR	395	27° 39' 46" S	152° 39' 04" E
3	Hilo.....	UF	335	19° 43' 45" N	155° 01' W	21	Eagle Farm.....	EF	370	27° 24' 32" S	153° 06' 24" E
3	Homestead.....	MK	248	21° 07' 59" N	157° 09' 13" W	21	Sidney.....	SY	230	33° 55' 30" S	151° 11' 45" E
3	Kaneohe.....	NGF	452	21° 27' 07" N	157° 45' 09" W	25	Guam.....	MH	341	13° 32' 38" N	144° 50' 25" E
3	Maui.....	GM	209	20° 38' 06" N	156° 26' 51" W	25	Guam.....	ME	224		
5	Christmas.....	RG	388	01° 57' 35" N	157° 21' 35" W	25	Saipan.....	MM	260	15° 08' 09" N	145° 42' 04" E
5	Johnston.....	QJ	260	16° 45' 22" N	169° 29' 49" W	25	Tinian (West Fld).....	MJ	284	14° 59' 51" N	145° 35' 36" E
5	Midway.....	KU	347	28° 12' 10" N	177° 22' 36" W	25	Tinian (North Fld).....	ML	326	15° 04' 33" N	145° 37' 33" E
5	Palmyra.....	JY	326	05° 52' 21" N	162° 06' 41" W	25	Tinian (Isley Fld).....	MG	239	15° 05' 24" N	145° 39' 25" E
7	Canton.....	BY	254	02° 51' 07" S	171° 37' 40" W	25	Saipan (Marpi Pt).....	OW	201	15° 16' 42" N	145° 48' 36" E
9	Tarawa.....	MA	220	01° 20' 59" N	172° 56' 46" E	27	Peleliu.....	LK	326	07° 03' 05" N	134° 16' 10" E
9	Eniwetok.....	GY	230	11° 23' 30" N	162° 23' E	29	Leyte.....	KR	225	11° 11' 33" N	124° 59' 59" E
9	Kwajalein.....	MC	326	08° 44' 50" N	167° 41' 30" E	29	Malabang.....	QJ	240	07° 37' 38" N	124° 03' 59" E
9	Majuro.....	MD	400	07° 04' 50" N	171° 19' 50" E	29	Mindoro.....	KX	320	12° 21' 15" N	121° 04' 30" E
11	Nandi.....	JR	208	17° 50' S	177° 23' E	29	Palawan.....	QF	275	09° 46' 24" N	118° 44' 41" E
11	Tutuila.....	UU	382	14° 20' S	170° 42' W	29	Zamboanga.....	QI	285	06° 55' 30" N	122° 04' 40" E
11	Wallis.....	LW	239	13° 20' 40" S	176° 10' 10" W	31	Lingayen.....	KY	380	16° 02' N	120° 14' 58" E
13	Auckland.....	FY	236	36° 50' 08" S	174° 39' 35" E	31	Clark Field.....	KS	365	15° 13' N	120° 34' E
13	Norfolk.....	KN	300	29° 03' 25" S	167° 57' 45" E	31	Manila.....	QM	345	14° 27' 30" N	121° 01' 58" E
13	Efate.....	HF	320	17° 42' 20" S	168° 18' 47" E	31	Laoag.....	KT	290	18° 11' N	120° 31' 51" E
13	Espiritu Santo.....	LY	227	15° 28' 59" S	167° 12' 34" E	31	Marinduque.....	XJ	204	13° 27' N	121° 50" E
13	Tontouta.....	IH	263	22° 00' 31" S	166° 10' 42" E	33	Iwo Jima.....	OX	201	24° 46' 36" N	141° 18' 41" E
15	Bougainville.....	CD	224	06° 13' 29" S	155° 00' 34" E	33	Iwo Jima.....	FN	206	24° 46' 37" N	141° 18' 05" E
15	Guadalcanal.....	HV	257	09° 27' 06" S	160° 07' 40" E	35	Ie Shima.....	OO	364	26° 44' 01" N	127° 45' 31" E
						35	Okinawa.....	MF	233	26° 24' 40" N	127° 44' 18" E
						35	Okinawa (Yonabaru).....	RJ	209		
						37	Tokyo.....	QT	375		
						39	Keijo.....	QR	300	37° 32' N	126° 53' E

YG BEACONS IN THE PACIFIC AREA

(LISTED NUMERICALLY BY PAGE)

The following information is a listing of all known YG Radio Beacons in the Pacific Areas. The YG Beacon is a sector coded beacon with standard sector settings for the Pacific Area. The code letters listed under the "Ident" Column refer to the geographical location of the YG Beacon, NOT TO THE SECTOR SETTINGS.

Page	Location	Ident.	Freq.	Latitude	Longitude	Page	Location	Ident.	Freq.	Latitude	Longitude
1	Oakland	OQ	540	37° 47' 06" N	122° 17' 49" W	17	Manus (Pityilu)	BP	545	01° 57' 20" S	147° 13' 24" E
1	Treasure Island	CJ	600	37° 48' 35" N	122° 21' 54" W	25	Guam	OB	545	13° 25' 10" N	144° 38' 20" E
3	Kaneohe	PQ	560	21° 27' 04" N	157° 45' 35" W	25	Tinian	JC	545	15° 02' 35" N	145° 37' 50" E
3	Barbers Point	BP	545	21° 21' 10" N	158° 04' 15" W	27	Ulithi	BZ	575	10° 01' 21" N	139° 47' 31" E
3	Maui	JY	665	20° 49' 05" N	156° 27' 35" W	27	Peleliu	JY	575	06° 59' 30" N	134° 14' 10" E
3	Upolu Point	QO	615	20° 15' 59" N	155° 51' 53" W	29	Samar	BB	545	11° 02' N	125° 44' E
3	Hilo	CJ	575	19° 43' 23" N	155° 03' 43" W	29	Mindoro	PX	660	12° 25' 45" N	121° 05' 30" E
5	Midway	ZO	570	28° 12' 35" N	177° 22' 47" W	29	Palawan	BX	660	09° 47' 13" N	118° 44' 41" E
5	Johnston	BO	640	16° 44' 27" N	169° 31' 07" W	31	Clark Field	CC	570	15° 10' 55" N	120° 33' 11" E
5	Palmyra	JY	680	05° 53' 04" N	162° 05' 16" W	31	Lingayen	BQ	660	16° 01' 45" N	120° 12' 23" E
5	French Frigate Shoals	QP	530	23° 52' N	166° 17' 12" W	31	Laoag	JX	545	18° 10' 31" N	120° 31' 01" E
9	Eniwetok	PY	545	11° 21' 51" N	162° 21' 14" E	31	Nichols Field	JC	545	14° 31' 12" N	120° 59' 22" E
9	Kwajalein	OQ	545	08° 43' 50" N	167° 44' E	35	Okinawa (Awase)	JC	545		
9	Majuro	OC	575	07° 05' 28" N	171° 22' 54" E						
9	Roi	BO	575	09° 23' 30" N	167° 28' 30" E						
15	Bougainville	XY	545	06° 12' 32" S	155° 04' 05" E						

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